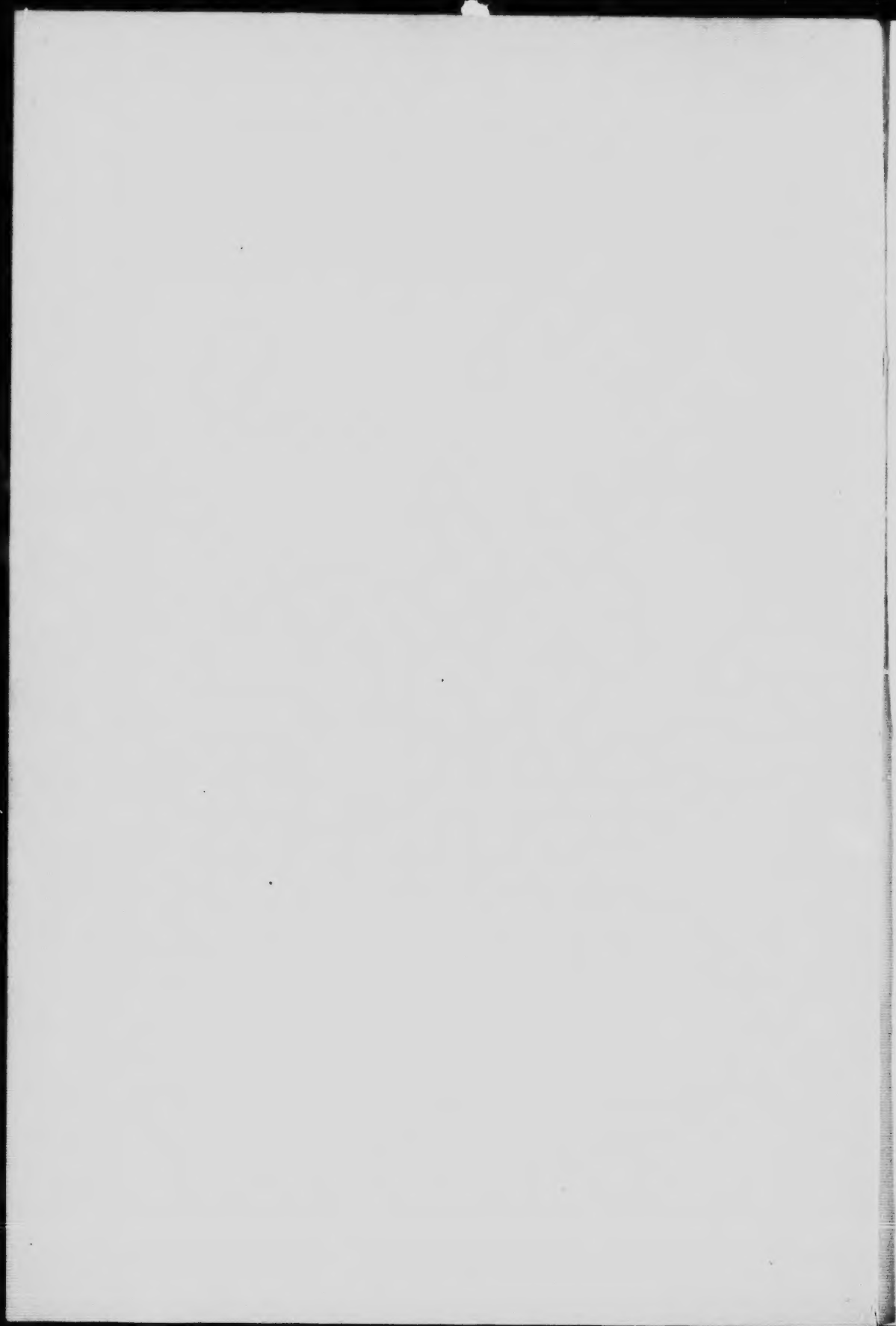


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Commission of Conservation

Constituted under "The Conservation Act," 8-9 Edward VII, Chap. 27, 1909, and amending Acts, 9-10 Edward VII, Chap. 42, 1910, and 3-4 George V, Chap. 12, 1913.

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HON. ARTHUR L. SIFTON, Premier, Minister of Railways and Telephones, Alberta
HON. WILLIAM R. ROSS, Minister of Lands, British Columbia

Assistant to Chairman and Deputy Head:

MR. JAMES WHITE

Commission of Conservation
Canada

ALTITUDES

The Relief Map of Canada has not yet been published,
but will be sent later.

JAMES WHITE, F.R.S.C., F.R.G.S.

*Assistant to Chairman and Deputy Head
Commission of Conservation*

ASSISTED BY

GEORGE H. FERGUSON, A. M., Can. Soc. C. E.

OTTAWA
The Mortimer Co., Ltd., Printers
1915

Commission of Conservation

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HON. WILLIAM R. ROSS, Minister of Lands, British Columbia

Assistant to Chairman and Deputy Head:

MR. JAMES WHITE

Commission of Conservation
Canada

ALTITUDES
IN THE
DOMINION OF CANADA

(Second Edition)

BY

JAMES WHITE, F.R.S.C., F.R.G.S.

*Assistant to Chairman and Deputy Head
Commission of Conservation*

ASSISTED BY

GEORGE H. FERGUSON, A. M., Can. Soc. C. E.

OTTAWA
The Mortimer Co., Ltd., Printers
1915

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TO FIELD MARSHAL HIS ROYAL HIGHNESS PRINCE ARTHUR WILLIAM PATRICK
ALBERT, DUKE OF CONNAUGHT AND OF STRATHEARN, K.G., K.T., K.P., &c.,
GOVERNOR GENERAL OF CANADA.

MAY IT PLEASE YOUR ROYAL HIGHNESS:

The undersigned has the honour to lay before Your Royal Highness the attached report on "Altitudes in the Dominion of Canada," second edition, which has been prepared by James White, F.R.S.C., Assistant to Chairman and Deputy Head, Commission of Conservation, assisted by George H. Ferguson, A. M., Can. Soc. C. E.

Respectfully submitted

CLIFFORD SIFTON

Chairman

OTTAWA, July 31, 1915



OTTAWA, Canada, July 30, 1915

Sir :

I beg to submit herewith a report on "Altitudes in the Dominion of Canada." The work has been prepared and compiled under my personal direction, in which I have been ably assisted by George H. Ferguson, A. M., Can. Soc. C. E.

This is the second edition of this work. The first edition was compiled by myself in my capacity as Chief Geographer, Department of the Interior.

The present edition has been greatly enlarged, the elevations have been thoroughly checked and verified, and brought up to date. The volume is presented, not as a complete and finished work, but as the most comprehensive compilation of altitudes in Canada yet published. It is not presented as absolutely accurate but as the best possible interpretation of the conflicting evidence available, respecting the elevation of many points in Canada.

As uninformed critics occasionally question the utility of this report, a number of uses are enumerated below:

(1) In relation to climate, and particularly agriculture, altitude is, relatively, more important than latitude. It is not possible to give exact figures, but an increase in altitude of 1,000 feet would have a greater adverse effect upon agricultural possibilities than many miles of increased latitude.

(2) In relation to health. The beneficial effect in certain phases of tuberculosis and other diseases is well known.

(3) In locating railways, data respecting altitudes in the vicinity of the proposed route are of the greatest value and, if in sufficient detail, will indicate the probable practicability, or impracticability, of the project. Using a railway station, bench mark, etc. of known altitude above mean sea level as the initial point of a railway survey will permit checking the levelling if the line intersects any other point, the elevation of which has been determined.

(4) In the construction of steam engines, air compressors, gas engines and other mechanical devices affected by atmospheric pressure, an accurate knowledge of altitude at point of operation is essential.

(5) As compared with lowlands, highlands are characterized by a greater frequency of, and up to a certain altitude more, precipitation.

(6) In the determination of watershed areas with respect to rivers, including water-power and irrigation projects. In studying river-basins in Europe, the watershed is divided into areas of equal altitude.

(7) The effect of altitude upon tree growth is too well known to need description.

(8) In projecting a pipe-line for water supply, an irrigation project or a canal a knowledge of the elevation of the country to be traversed by it is essential

(9) To the geologist data respecting altitudes are necessary for intelligent study of geological problems.

(10) In the study of the physical geography of any area, information respecting its elevation is required for even a preliminary study.

Many more uses could be cited but the foregoing will suffice.

Accompanying the report are the following maps and profiles:

Profiles of the Canadian Pacific, Grand Trunk Pacific, National Transcontinental and Canadian Northern railways.

Map showing Precise Levelling in Canada, east and west sheets.

Chart showing water-levels of the Great lakes.

Relief map of Canada.

For valuable information and permission to use available data, I am indebted, and my thanks are due, to so many individuals and organizations that it is impossible to enumerate all. Much information, however, has been received from the following:—

- J. G. Sullivan, Chief Engineer, Canadian Pacific Railway, Western Lines.
- J. M. R. Fairbairn, Asst. Chief Engineer, Canadian Pacific Ry., Eastern Lines.
- J. E. Beatty, Division Engineer, Canadian Pacific Railway, St. John.
- J. C. Holden, Division Engineer, Canadian Pacific Railway, Winnipeg.
- T. Martin, Division Engineer, Canadian Pacific Railway, Regina.
- F. W. Alexander, Division Engineer, Canadian Pacific Railway, Calgary.
- H. Rindal, Division Engineer, Canadian Pacific Railway, Vancouver.
- A. McCoubrey, Chief Draughtsman, Canadian Pacific Railway, Winnipeg.
- M. H. MacLeod, General Manager and Chief Engineer, Canadian Northern Railway, Western Lines.
- K. Wicksteed, Chief Engineer, Canadian Northern Railway, Eastern Lines, Department of Surveys.
- J. E. Davison, Asst. to Chief Engineer, Canadian Northern Railway, Western Lines.
- T. H. White, Chief Engineer, Canadian Northern Pacific Railway.
- H. A. Woods, Asst. Chief Engineer, Grand Trunk Pacific Railway.
- J. A. Heaman, Asst. to Chief Engineer, Grand Trunk Pacific Railway.
- R. W. Leonard, late Chairman, Transcontinental Railway Commission.
- Duncan MacPherson, late Asst. to Chairman, Transcontinental Railway Commission.
- Gordon Grant, Chief Engineer, National Transcontinental Railway.
- Guy Dunn, late District Engineer, National Transcontinental Railway.
- A. E. Doucet, District Engineer, National Transcontinental Railway.
- H. M. Balkam, District Engineer, National Transcontinental Railway.
- T. S. Armstrong, District Engineer, National Transcontinental Railway.
- F. A. Gaby, Chief Engineer, Hydro-Electric Power Commission of Ontario.
- H. G. Acres, Hydraulic Engineer, Hydro-Electric Power Commission.
- S. B. Clement, Chief Engineer, Timiskaming and Northern Ontario Ry.

LETTER OF TRANSMITTAL

ix

W. C. Franz, General Manager, Algoma Central and Hudson Bay Railway.
G. D. Porter, Chief Engineer, Hudson Bay Railway.
A. H. Hogeland, Chief Engineer, Great Northern Railway, St. Paul, Minn.
F. N. Sinclair, Chief Engineer, British Columbia Electric Railway.
Dr. W. F. King, Chief Astronomer, Dominion Observatory.
C. A. Biggar, Assistant Superintendent, Geodetic Survey.
F. B. Reid, Supervisor of Levelling, Dominion Observatory.
Dr. E. Deville, Surveyor General.
J. N. Wallace, Topographical Surveys Branch, Dept. of Interior.
Dr. W. Bell Dawson, Supt. of Tidal Surveys, Dept. of Naval Service.
F. H. Peters, Commissioner of Irrigation, Dept. of Interior.
C. F. X. Chaloner, Superintending Engineer, Canadian Geodetic Levelling.
C. R. Coutlee, Engineer, Ottawa River Regulation.
S. J. Chapleau, District Engineer, Dept. of Public Works.
Major T. V. Anderson, Director of Military Surveys, Dept. of Militia and Defence.
J. B. Challies, Superintendent, Water Power Branch, Dept. of Interior.
W. A. Johnston, Geological Survey Branch, Dept. of Mines.
Norman D. Wilson, Surveys Engineer, Toronto Harbour Commission.
City Engineers.
Hon. O. H. Tittmann, Superintendent, U. S. Coast and Geodetic Survey, Washington.
Col. J. C. Sandford, District Engineer Officer, U. S. Lake Survey, Detroit.
F. G. Ray, Principal Assistant Engineer, U. S. Lake Survey, Detroit.

Respectfully submitted

JAMES WHITE

Assistant to Chairman and Deputy Head

Sir Clifford Sifton, K.C.M.G.

Chairman

Commission of Conservation
Ottawa

Maps and Profiles

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Profile of National Transcontinental Railway, Moncton to Winnipeg.....	(In pocket)
Profile of Grand Trunk Pacific Railway, Winnipeg to Prince Rupert	(In pocket)
Water Levels of the Great Lakes, 1860 to 1914	(In pocket)

INTRODUCTION

The most important levelling operations affecting Canada that have been carried on since the publication of the first edition of *Altitudes in Canada* in 1901, are as follows:

(1) Precise levelling has been carried on in all the provinces of Canada except Prince Edward Island, by the Geodetic Survey, Dr. W. F. King, Chief Astronomer, C. A. Biggar, Assistant Superintendent, and F. B. Reid, Supervisor of Levelling.

The accompanying maps show all precise level lines run by the Geodetic Survey, Public Works and Surveyor General.

(2) Precise levelling under the direction of Mr. C. F. X. Chaloner, Superintending Engineer, Canadian Geodetic Levelling. With the exception of the line from Stephen, Minn., to Winnipeg Beach, Man., it has been confined to Nova Scotia, New Brunswick, Quebec and Ontario.

(3) Many lines of levels have been run in the Prairie Provinces under the direction of Dr. E. Deville, Surveyor General of Canada, J. N. Wallace, in charge of levelling. These operations include precise level lines from Winnipeg to Edmonton, *via* Prince Albert, and others, aggregating 2,160 miles. In addition, 10,970 miles of base and meridian lines have been levelled with an ordinary Y level.

(4) The re-adjustment of the level net and subsequent publication by the U. S. Coast and Geodetic Survey of a concise compilation of the corrected elevations of bench-marks in the United States resulting from this general adjustment. This re-adjustment is discussed below in reviewing the general adjustment of levels in Canada.

(5) The Canadian Pacific railway re-levelled all its lines east of Fort William and a considerable mileage west of that point.

(6) Since 1901, the railway mileage of Canada has increased from 18,140 miles to 37,000. In addition, there was a very large mileage of trial and exploratory lines run during same period.

Precise levels in the Maritime Provinces are based upon mean sea level as determined at Halifax, St. John and other points by Dr. W. Bell Dawson, Superintendent of Tidal Surveys. In central and western Quebec and in Ontario, they depend upon the U.S. bench-mark on the Chapman block, Rouses Point, N.Y.

The levels from Rouses Point by way of Coteau and the Grand Trunk railway, are connected with the United States levels at Cornwall. At the latter point, elevations of the common bench marks are, by the precise levels of the Department of Public Works, 0.36 foot *lower* than the adjusted figures, Coast Survey adjustment.

At Toronto, we have the following:

In Toronto, we have the following:	
Public Works bench-mark No. 646½ (water-transfer from Tibbett Point, N.Y.).....	254.21
Geodetic Survey levels, transferred to B.M. 646½.....	253.35
Difference.....	0.86
At Windsor:	
Detroit Tunnel B. M. No. 7 (Lake Survey).....	597.84
(Geodetic Survey).....	596.69
Difference.....	1.15
At Bridgeburg:	
B. M. near Fort Erie ferry landing (Lake Survey).....	570.60
" " " " (Geodetic Survey).....	569.84
Difference.....	0.76

Water-transfers on the Great Lakes

In 1875, water gauges were established at Oswego and Charlotte, near the east end of lake Ontario, and at Port Dalhousie, near the west end; similarly, at Port Colborne, Ont., near the east end of lake Erie and Cleveland, Ohio, and Rockwood, Mich., near the west end; at Lakeport, Mich., near the south end of lake Huron; at Escanaba, Mich., in the north-western portion of lake Michigan and Milwaukee, Wis., in the south-western portion; at Marquette, Mich., on the south shore of lake Superior.

Tri-daily readings of these gauges were made from May 11th to August 31st, 1875. The table of mean gauge-readings, lake Ontario, is as follows:

Month	No. of days	Mean gauge-reading		Sum	Mean gauge-reading		Sum
		At Charlotte	At Oswego		At Oswego	At Port Dalhousie	
May.....	21	2.91	1.65	4.56	1.65	12.21	13.86
June.....	30	2.78	1.73	4.51	1.73	12.12	13.85
July.....	31	2.64	1.81	4.45	1.81	12.04	13.85
August....	31	2.82	1.63	4.45	1.63	12.19	13.82
*Means		2.72	1.71	4.49	1.71	12.13	13.84

*In deriving the final means, the mean for each month is divided by the number of days during which observations were taken.

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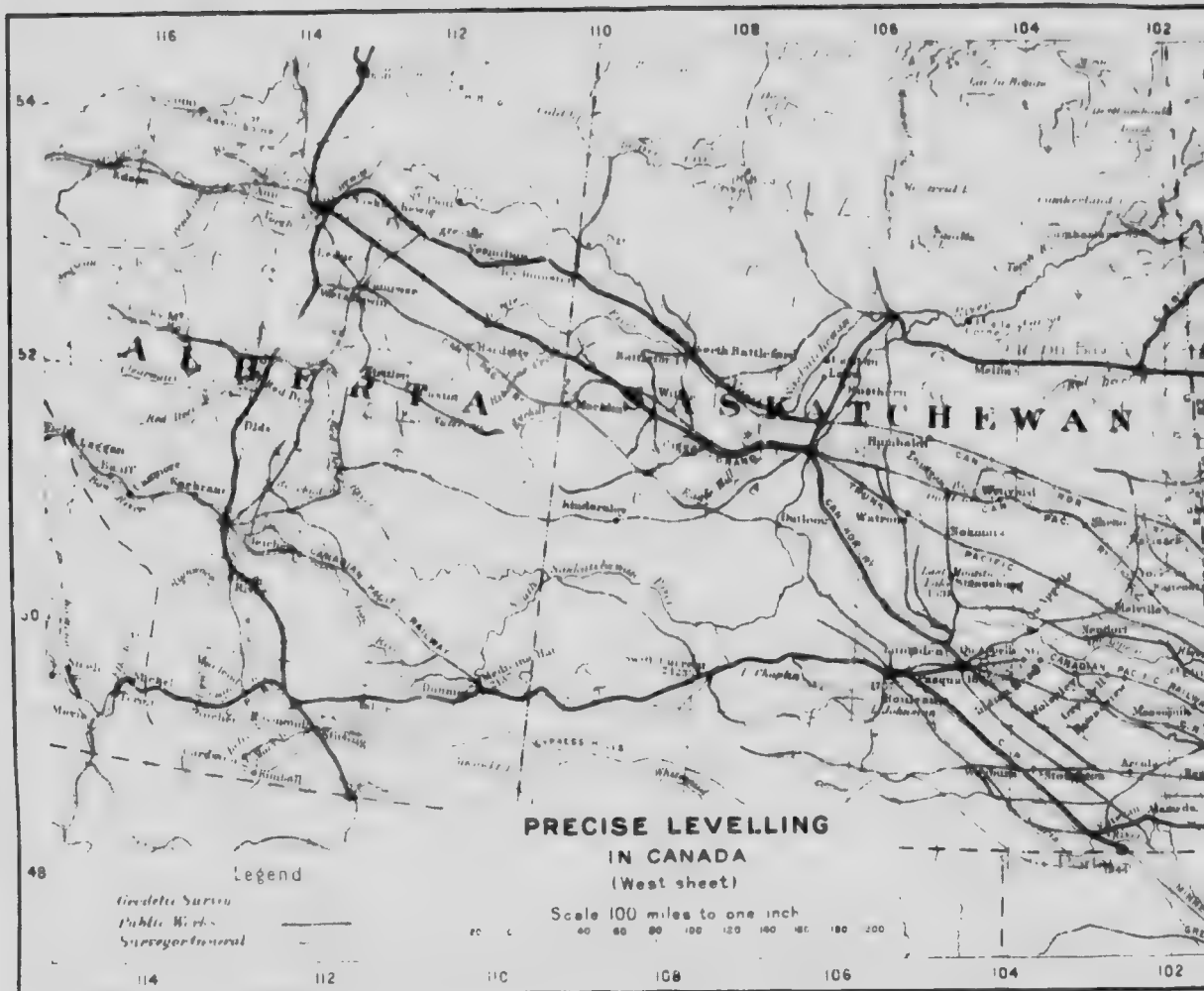
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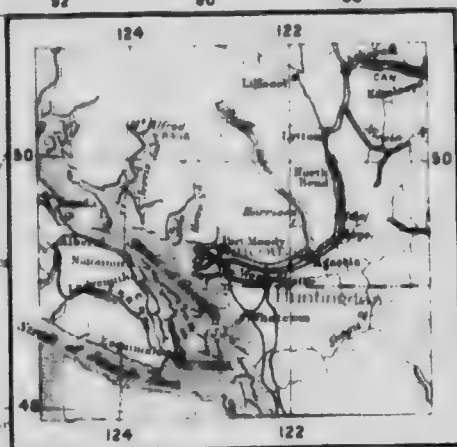
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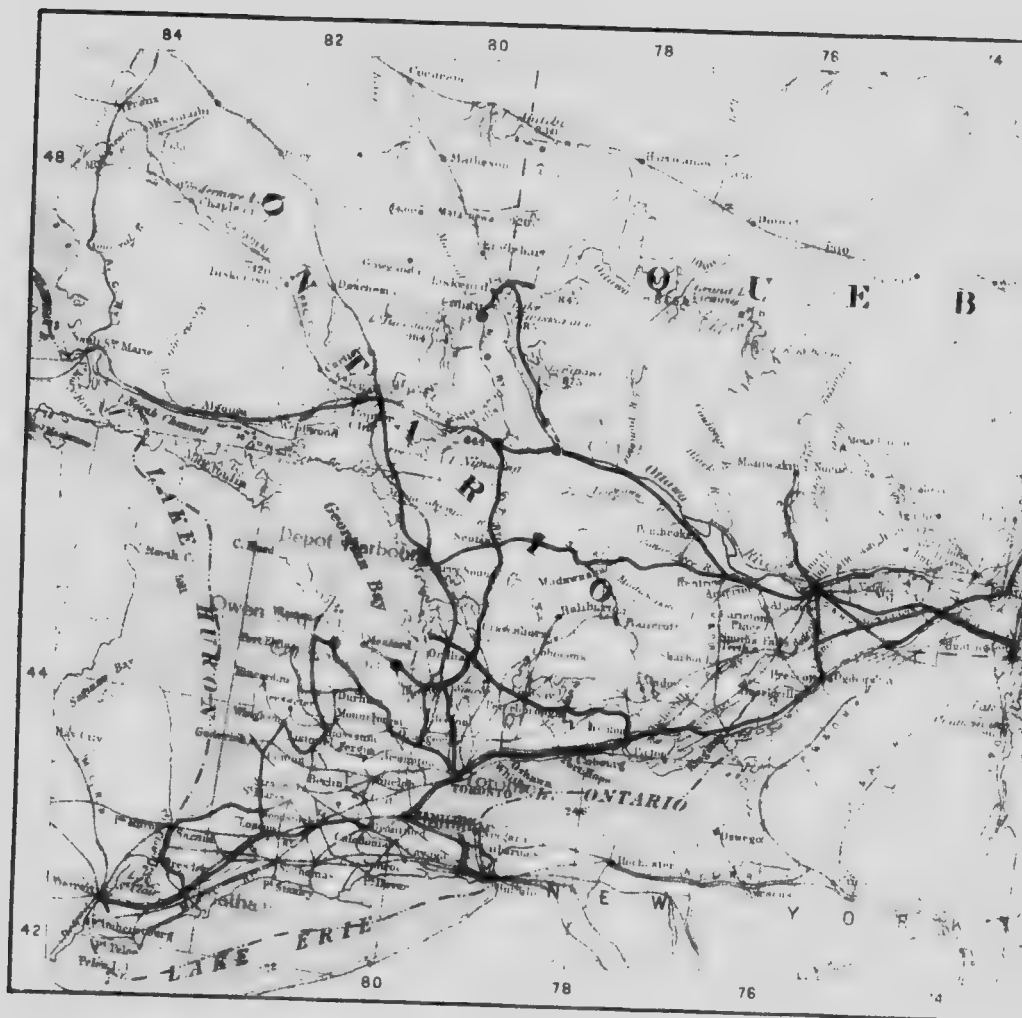
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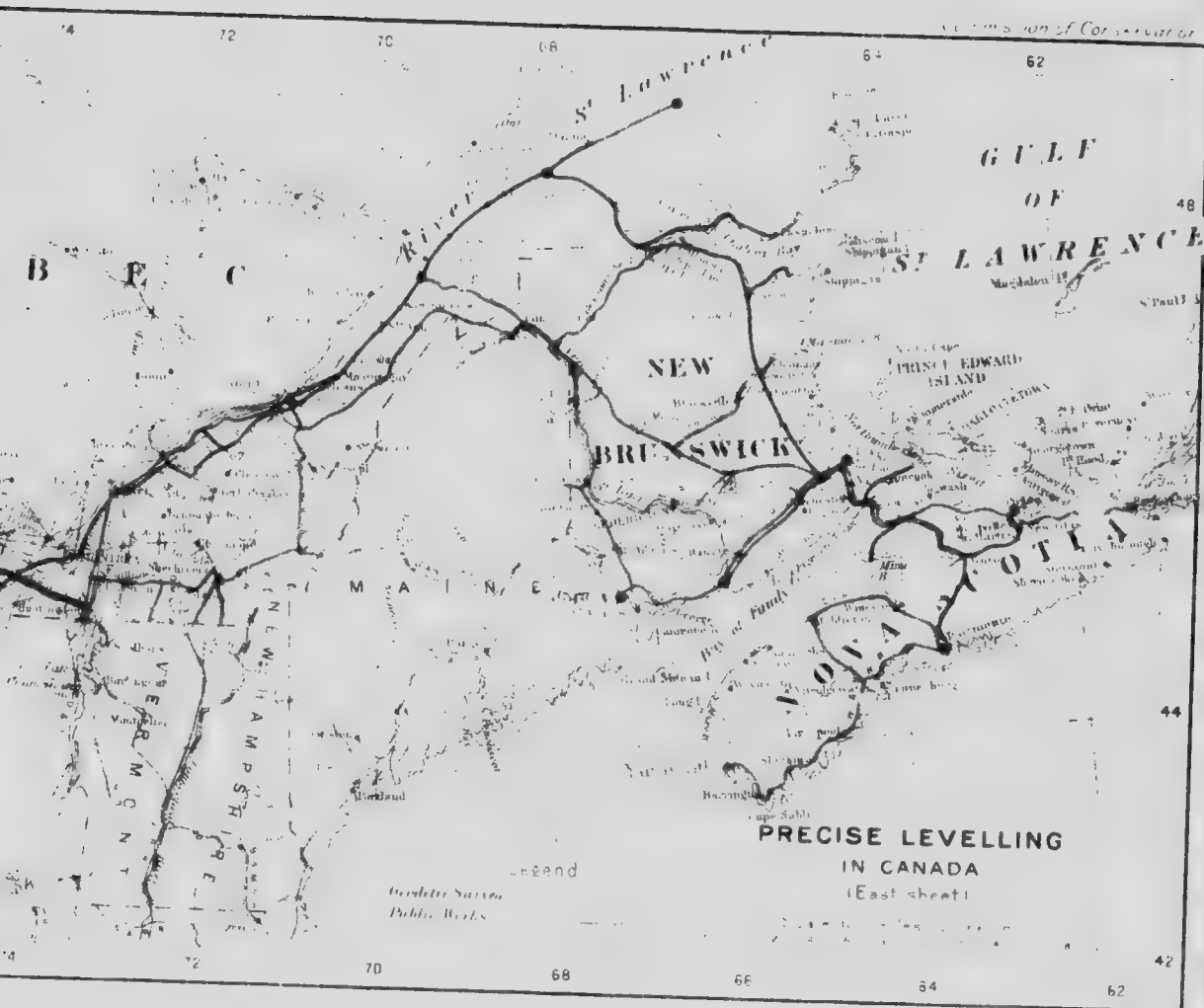
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INTRODUCTION

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The differences between the readings at Cleveland and Port Colborne varied from 2.61 to 2.65 with a mean of 2.63; between Port Colborne and Rockwood, from 4.48 to 4.64, with a mean of 4.54.

The differences between the Lakeport and Escanaba gauges ranged from 2.50 to 2.63 with a mean of 2.57.

To ascertain the probable effect of the winds on the surface of the water, a comparison was made. The following results were obtained, the quantities in the "Results" column showing how much the zero of the gauge at Port Dalhousie is below the zero of the gauge at Oswego.

Direction of wind	Rejecting storm-days*		Storm-days not rejected	
	No. of days	Results	No. of days	Results
North, south and calm.....	29	13.84	29	13.84
Northeast, east and southeast.....	14	13.81	16	13.81
Southwest, west and northwest.....	54	13.86	68	13.88

As the result obtained by excluding storm-days did not differ materially from those obtained by their inclusion, they were retained in deriving the mean differences in height.

For lake Erie, the following means were obtained:

Direction of wind	Rejecting storm-days		Not rejecting storm-days	
	No. of days	Results	No. of days	Results
Southeast and northwest	28	4.56	34	4.56
North, northeast and east.....	22	4.72	26	4.71
South, southwest and west.....	40	4.35	45	4.31

The mean of all observations made the zero of the Port Colborne gauge 4.54 feet above the zero of the Rockwood gauge, with a probable mean error not exceeding 0.10 foot.

For lake Huron, the means are as follows:

Direction of wind	Rejecting storm-days		Not rejecting storm-days	
	No. of days	Results	No. of days	Results
East and west.....	22	2.62	22	2.62
North, northwest and northeast.....	35	2.48	40	2.45
South, southwest and southeast.....	34	2.68	34	2.68
Calm.....	7	2.58	"	2.58

The mean of all observations made the zero of gauge at Lakeport 2.57 feet above zero at Escanaba, with a probable error not exceeding 0.05 foot.

*Days when the velocity of the wind exceeded 10 miles per hour were considered as storm-days.

As might be anticipated, the results for the shallowest lake, lake Erie, are least satisfactory but, even in this case, the Lake Survey considers the probable error not more than 0.10 foot, very much less than the probable error of precise levelling for the same distance.

It has been suggested that lake Erie may have an appreciable slope. Hagen's formula, as stated in *Professional Papers of the U. S. Corps of Engineers*, No. 24, page 608, is: $V = 6 R^{\frac{1}{2}} I$, where V is the mean velocity, R and I the mean radius and the slope. Now, in lake Erie there are two points at which it has a contracted cross section, namely, opposite point Pelee and opposite the outer end of Long point. Assuming that the contracted section at Pelee is 25 miles long, we get a slope of 0.00097 ft. Assuming that the contracted section opposite Long Point applies to the whole lake, we have a fall of 0.00056 ft. Or, in all, only 0.00153 foot.

When it is borne in mind that Hagen's formula only applies to large rivers, and, therefore, gives too high results, it is obvious that the slope, even in lake Erie, is a negligible quantity.

Standard Canadian Bench Marks on Great Lakes

Mr. S. J. Chapleau, Department of Public Works, has supplied the following data re elevations of bench-marks on the Great Lakes as determined by water-transfers:

Lake Ontario....	Kingston B.M. ¹	252.73
" "	" "Coping" B.M. ²	251.32
" "	Brighton B.M. XCXVII ³	256.57
" "	Toronto B.M. 646 ⁴	254.21
" "	Port Dalhousie B.M. ⁵	254.83
Lake Erie.....	Port Stanley B.M. ⁶	587.00
" "	Port Colborne B.M. ⁷	584.58
Lake Huron.....	Goderich B.M. ⁸	588.55
Georgian Bay.....	Collingwood B.M. 668 ⁹	587.85
" "	French River B.M. No. 26 ¹⁰	591.58
Lake Superior....	Port Arthur B.M. ¹¹	616.13

¹ Kingston B.M. is a steel rivet in top plinth course, S.W. corner of pump house, Kingston dry dock.

² "Coping" B.M. is point of broad arrow, cut in coping, at inner water gauge.

³ B.M. XCXVII is top of steel plug in marble rock about 1,000 feet N.W. of Brighton wharf.

⁴ B.M. 646¹ is top of steel rivet in coping, S.E. corner of arched portal of Garrison Creek sewer, 800 feet N. of Queen's wharf.

⁵ Port Dalhousie B.M. is top of iron bolt in foundation stone of large chimney, S.E. end of C.T.R. elevator, east side of Welland canal.

⁶ Port Stanley B.M. is top of steel plug in top course, E. abutment, Kettle Creek bridge.

⁷ Port Colborne B.M. is top of steel plug in coping of W. abutment of swing bridge over S. entrance walls of guard lock, Welland canal.

⁸ Goderich B.M. is top of rivet, S.E. corner of chimney, waterworks pumphouse.

⁹ B.M. 668¹ is top of steel rivet in top of plinth course, N.W. of Collingwood Ship-building Co.'s pumphouse.

¹⁰ B.M. 26 is top of iron ring-bolt set in rock about 250 ft. S.W. of Ontario Lumber Co.'s dock.

¹¹ Port Arthur B.M. is top of rivet in foundation, first course above ground, S.W. corner of Canadian Pacific freight office, Arthur street.

The Harbour-Master's Gauge and Sea Level Datum at Toronto

The Harbour-master's gauge at Toronto is the plane of reference for Canadian water-level records of lake Ontario. Norman D. Wilson, late Surveys Engineer, Toronto Harbour Commission, has kindly contributed the following:

"The Toronto Harbour-master's gauge standard consists of a $\frac{3}{4}$ " steel plate deeply cut or etched in divisions of feet and inches, spiked to the south face of the cribbing of the Queen's wharf. The cribbing rests on the rock and the possibilities of settlement are minimum. The gauge was set up in this position about 1886-7 when I am told it was carefully transferred from its previous position in the vicinity under the direction of Mr. Kivas Tully, Engineer to the Harbour Board.

"The zero of the gauge as originally set up, registered nine feet of water at the Queen's wharf or Western channel. Its datum has not since been changed, though no record is available to give the precise history of the gauge. Readings have been taken of the water level referred to this datum since 1854, though the majority of the records previous to 1860 were destroyed in the burning of the harbour office that year. Since 1861 there exists a record of the height of the water and direction of the wind for every day of the year. For the years 1854-1860 a table of weekly means is extant, giving the mean height of the water for each week for twelve weeks each three months.

"The readings recorded since the setting of the standard gauge in its present position have been taken on a float and staff gauge situated at the west end of the Queen's wharf. A well, connected by a pipe to the old western channel, contains a float. A line attached to this float and carried over a pulley and counter-weighted, bears a pointer which travels up and down over the graduations of the staff, with the rising and falling of the float with the water.

"The reading of the staff gauge was frequently checked by direct reading of the standard, and the staff gauge was corrected if any variation crept in. Of late years the staff gauge has not been entirely trustworthy, owing to the fact that the mast for carrying the storm signals is attached to the gauge house and, with the weakened condition of the property as it has fallen into more or less disrepair, a wind of even moderate size is sufficient to affect the easy working of the pulley or the position of the pointer on the cord.

"The readings have been taken to the nearest inch or half-inch once a day during the course of each morning.

"The gauge was set up and maintained as an aid to navigation, and not for the purpose of a scientific study of fluctuations of the level of lake Ontario. Neither the stability of the gauge, the method, the frequency nor the precision of reading it—and more particularly the form of the records, or rather the lack of complete memoranda as to changes in the position of the standard, and of adjustments of the staff gauge—is conducive to confidence in the records as an absolutely precise study of lake Ontario. But the consistent values obtained for the elevation of the zero of the gauge and of mean water is a most remarkable

example of the law of averages, and an assurance that the gauge has been consistently cared for well within the limits of accuracy for its primary purpose.

"It is axiomatic that a single datum for North America is an engineering convenience, and New York Harbour mean sea level has been almost uniformly adopted as that datum. The U.S. Lake Survey determined the zero of their gauge at Oswego to be 244.15 feet above New York mean sea level (according to the adjustment of the U.S. level net of 1903). The basis of all precise levels in Canada is the bench on the Chapman building at Rouses Point, N.Y. whose elevation is accepted as that given by the U. S. Coast and Geodetic Survey, namely, 107.955.

"An examination of the yearly mean elevations of lake Ontario, as recorded at Toronto and at Oswego, gives the elevation of the Toronto gauge as 245.12 and the value of mean water at Toronto as 1.09 feet above Harbour-master's zero, or, as elevation 246.21.

"During the summers of 1906, 1907, 1908, and 1909, the Department of Public Works had an automatic gauge at Toronto in connection with the precise levels of the Georgian Bay Canal Survey. Mr. F. R. Burgess of the Naval Service Department was in charge of the gauge and kindly furnished me with the following data respecting the reference bench. This was the top of bolt at the southeast corner of the portal of Garrison Creek sewer and its elevation from the mean of four seasons' gaugings was 254.21. This was deduced by comparison with the record of the U.S. Lake Survey automatic gauge at Tibbett Point, N.Y.

For the season of operation of the gauge, June to November of 1906, the elevation of the reference bench was.....	254.37
For the season of 1909.....	254.11
And a mean of the 4 years, 1906-9.....	254.21

"The Harbour-master's zero is 9.34 feet below this reference bench, or the value of the Harbour-master's zero would be 244.87. The value, 245.00, as elevation of the Harbour-master's gauge, was adopted by the Georgian Bay Canal Survey (See *Georgian Bay Ship Canal Survey, Report on the Precise Levelling, Years 1904-1907*) and, after consideration of the herein data, by the City Engineer, Toronto.* The probability is that this round number value is not more than five hundredths of a foot astray from the exact truth, and absolute accuracy in levels can never be attained.

"For the following data regarding the Geodetic Survey of Canada precise levels, I am indebted to Mr. F. B. Reid in charge of the same. In common with the Georgian Bay Canal levels and other precise levels in Canada, the initial starting point is the U. S. Lake Survey bench at Rouses Point, N.Y., whose elevation is adopted as given by the U.S. Coast and Geodetic Survey, 107.955. A line of precise levels was run from this point to Windsor with a branch from Hamilton to Bridgeburg, but these lines have not yet been adjusted nor was any connection made connecting them to the level of lake Ontario.

*Pending a re-adjustment of the Canadian precise levels, this elevation—245.00—has also been adopted in this report.

"The value of mean sea level in each year is thus the average of 8,760 individual measurements at successive hours without a break. If any serious interruption occurs, a fresh beginning is made. The basis for the final determination is in all cases a series of complete years of this character; and such determinations have evidently a very high accuracy. The number of years on which the value is based at each harbour, is indicated in the list following:

"*Bench-marks*—The bench-marks described have been placed or utilized by the Tidal Survey; and they serve to define the low-water datum of the charts as well as the zero level of the tide tables. Care has also been taken to connect these bench-marks with any established datum which existed; such as a railway datum or a harbour datum. In some cases, a datum for these purposes, or for city levels, has been based subsequently upon the tide levels as established by this Survey.

"*Halifax*—Bench-mark in the Naval yard. On a masonry building originally known as the sail loft, and now named No. 3 storehouse; a groove cut on the masonry and marked with a broad arrow beneath it, on the east side of the building near the southeast corner, and about $4\frac{1}{2}$ feet from the ground. (The low-water datum of the Admiralty chart of Halifax harbour is defined as 16 feet 1 inch below this bench-mark).

Bench-mark above low-water datum.....	FEET
Mean sea level, as determined from <i>nine years</i> of tidal observation, between 1895 and 1906.....	16.08
Royal Engineers' datum, at 12.61 feet below the bench-mark, as described.....	3.49
Halifax City datum, at 1.85 feet below the Royal Engineers' datum.....	3.47
Low-water datum of the Chart of the harbour; used from 1895 onward as the zero level for the height of the tide.....	1.62
	0.00

"*St. John, N.B.*—Bench-mark; a broad arrow cut on the granite foundation of the custom house, near the southeast corner, and facing Prince William street; marked with the letters "B.M."

Bench-mark above the low-water datum.....	FEET
Mean sea level as determined from <i>fifteen years</i> of tidal observation, from 1894 to 1910..	55.60
Canadian Pacific Railway datum; in correspondence with mean sea level.....	14.01
Zero level for the height of the tide in the tide tables as adopted in 1896; and now accepted as the Public Works datum.....	13.96
	0.00

"*Quebec*—Admiralty bench-mark, a broad arrow cut in the stone-work on the east side of the principal gateway to the Dept. of Marine and Fisheries building. (The original Chart datum for Quebec harbour is defined as 28 feet below this bench-mark).

"Bench-mark on the dry dock at Lévis, where the tide gauge is situated; a copper plug set horizontally into the face of the masonry of the first altar step, on the west side; and marked LXXIV.

INTRODUCTION

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Admiralty bench-mark at Quebec, above the low-water datum.....	FEET 28.00
Bench-mark LXXIV at Lévis, as described.....	22.58
Royal Engineers' datum, as adopted in 1864; intended as mean sea level.....	8.72
Mean sea level, as determined from sixteen years of tidal observation, from 1894 to 1911..	8.61
Datum for St. Lawrence levels, as adopted by Mr. R. Steckel of the Public Works Department.....	0.96
Admiralty low-water datum; used from 1894 onward as the zero level for the height of the tide.....	0.00
<i>Note</i> —It has been ascertained that mean sea level at Quebec is approximately $\frac{1}{2}$ foot higher than on the Atlantic coast, owing to the slope of the river.	

"*Victoria, B. C.*—Original bench-mark, on a building at the northeast corner of Wharf and Fort streets; the top of the sandstone found on below the brick-work, at the street corner, which is nearly on the level of the sidewalk. Or, the southern end of the first door-sill, which is $2\frac{1}{2}$ feet from the corner; the level being the same. (The Hudson Bay Co.'s datum and the City datum are defined by this bench-mark).

"Tidal Survey bench-mark, at the rear of the old Custom house building on Wharf street at the foot of Broughton street; the top of a brass bolt drilled vertically into the granite rock, at 16 feet from the northwest corner of the building with the letters "B.M." cut beside it on the sloping surface of the rock.

Original bench-mark, above the low-water datum or zero of the tide tables.....	FEET 36.36
Tidal Survey bench-mark, as described.....	15.40
High water level; average elevation of the higher of the two high waters in each day, based on a period of two complete years. Defining the front line of shore properties.....	8.51
Mean sea level; as determined from five years of tidal observation between 1895 and 1911.....	6.18
Low-water datum adopted as the zero level for the height of the tide in the tide tables..	0.00
(This is at 90.40 feet above the Victoria City datum).	

"*Vancouver, B. C.*—Bench-mark, on the north front of the Customs examining warehouse; the top of a brass bolt set obliquely into the masonry plinth at about six feet west of the most easterly of the three doors.

Bench-mark above the low-water datum.....	FEET 40.09
High water level, adopted as elevation 100.00 feet, in establishing the Canadian Pacific Railway datum.....	15.23
Mean sea level, as determined from seven years of tidal observation; in 1902-03, and from 1905-12.....	8.03
Low-water datum of the chart of Vancouver harbour; adopted as the zero level for the height of the tide.....	0.00
(This is at 84.77 feet above the Canadian Pacific Railway datum).	

"*Prince Rupert, B. C.*—Bench-mark, the top of a brass bolt set vertically in a concrete wharf, of which the west side is 45 feet eastward from the centre line of McBride street. The bolt is $16\frac{1}{2}$ feet from the shore end of the wharf, and 15 inches from its west side; the top of the bolt being level with the surface of the concrete.

Bench-mark above the low-water datum.....	FEET 30.03
Mean sea level; as determined from four years of tidal observation, between 1906 and 1911.....	12.49
Low-water datum or zero level of the tide tables; and Chart datum.....	0.00
Harbour datum as adopted by Mr. J. H. Bacon, while harbour engineer; one foot lower.	-1.00

"*Other tidal stations*.—In addition to the foregoing, there are a number of harbours on both coasts of Canada for which mean sea level can be computed accurately or approximately, according to the length of the tidal record obtained from them. Although the location of these stations was primarily decided upon for tidal purposes, they are well distributed over the entire coast line; and, on the Pacific coast, they include the heads of the principal inlets to which railway communication is the most probable."

Adjustments of United States Precise Levelling

Reference has already been made to the comprehensive re-adjustment of precise levels in the United States which was carried out by a committee composed of four members of the staff of the U.S. Coast and Geodetic Survey. A number of bench-marks in Canada were included in this re-adjustment and there were many others, particularly in the vicinity of the Great lakes that can readily be connected with the Canadian precise level net by water-transfer or by direct connection.

As the water-levels of the Great lakes are referred to the various bench-marks determined by this re-adjustment, it is important that—unless we are prepared to challenge the accuracy of the United States levels—our results should be in agreement with theirs at common points. The differences between the American and our preliminary figures are set forth on pages ix, xiv.

One important point in this connection is the value to be attached to water-transfers on such large bodies of water as the Great lakes. The writer has always held that such transfers, if properly carried out, are more accurate than precise levelling, basing his belief largely upon the results obtained by the U. S. Lake Survey in 1875, and which are set forth on pages ix-xi.

As supporting this theory the remarks of Mr. John F. Hayford, Inspector of Geodetic Work, U.S. Coast and Geodetic Survey, are of interest. In the report for 1898-99,* he discusses the relative elevation of the gulf of Mexico and the Atlantic. A calculation of the difference of elevation necessary to account for the Gulf Stream, based on Hagen's formula, indicated "a fall of about 0.1 foot, or 30 millimetres, in the 500 miles of the straits between its western entrance and the north end of the Bahama Banks. Other formulae for the slope give results varying widely from this, some of them indicating a much greater slope, perhaps ten times as great. All of the available formulae are based on observations upon streams which are much shallower and smaller, and are, therefore, very unreliable when used as a means of extrapolation to determine the slope of so large a stream."

The suggestions that the winds may heap up the water into the Gulf and that the barometric pressure may be less on the Gulf than on the Atlantic are also discussed.

**Precise Levelling in the United States*. U.S. Coast and Geodetic Survey. Appendix No. 8, Report for 1898-99, p. 429.

The mean of the four values for the apparent elevation of the Gulf above the Atlantic, derived from the levelling is $+0.462$ metre. "The range, 0.85 metre, in these values is so great that it can hardly be contended with confidence that the mean represents an actual difference of elevation."

In view of the evidence, Mr. Hayford "believes that a greater degree of accuracy will be attained in the adjustment of a level net by assuming that the mean surface of the Gulf and of the Atlantic are at sensibly the same elevation, than by introducing any correction, derived either from theory or from the levelling itself, for the elevation of the Gulf above the Atlantic."

The contention that the apparent systematic error is due to the erroneous assumption that the Gulf of Mexico and the Atlantic are at the same level is disproved by: (1) Of the 18 circuits, only one has a closing error affected by this assumption, and (2) of the 17 closures, independent of this assumption, 14 have closing errors of the sign which would be accounted for by assuming that the closing error is due entirely to the below systematic error.

The U.S. Coast Survey Committee on Precise Levelling made an investigation to determine the laws governing the systematic errors known to exist in Coast Survey levelling. The principal conclusion reached was that "a horizontal surface as defined by Coast and Geodetic Survey levelling of precision is always tipped up slightly with reference to the true horizontal surface, the rotation being about a line 20° north of west or south of east, the inclination being such that the south-western part of the surface is too low and the north-western portion too high, regardless of the direction in which the levelling actually progressed. According to this law, a Coast and Geodetic Survey level line running in a direction about 20° east of north will run too *low* at a maximum rate; a line in the opposite direction will run too *high* at the maximum rate, and in the two directions at right angles, namely 20° north of west and 20° south of east, a line will not be subjected to a *systematic* tendency to run either too high or too low."*

While this law appears to hold good for Coast Survey levelling previous to 1899, the same kind of evidence indicates that systematic errors following this law do *not* exist in the levelling by the U. S. Engineers.

The Committee on Precise Levelling has, since the first adjustment in 1899, also passed on the adjustments of 1903, 1907 and 1914. The 1907 report contains the following respecting the principles upon which the later adjustments have been made:

†"When there is added to such a level net as that which was fully and carefully adjusted in 1903 so much new, accurate, and important levelling as is indicated above, the first question that arises is: How much change will this necessarily make in elevations already published? It is a great convenience to have fixed assigned elevations for bench-marks—standard elevations, so to speak—to

*U.S. Coast and Geodetic Survey. *Precise Levelling in the United States, Appendix No. 8. Report for 1898-99.*

†*Precise Levelling in the United States, 1903-1907, p. 8.*

which all other elevations in surrounding regions shall be referred, and to make no changes in these values unless necessary. Every change in the assigned elevations of the principal bench-marks is liable to cause inconvenience to engineers and to the Survey, as well as to the Survey, by making extensive changes necessitated by recomputations based upon these assigned elevations. On the other hand, however, desirable it may be to have fixed values for the elevations of the principal bench-marks, and so to make no changes in those which have already been given to the public in print, it is not desirable to keep a value for an elevation unchanged when later levelling gives a value differing from it greatly and which is determined with a higher degree of accuracy. Therefore, it is never possible to adopt a final standard value for the elevation of any bench-mark unless it is positively known that no more precise levelling connected with the net will be done, or else that, if done, it will not be utilized to improve the existing assigned elevation; for, all new levelling, besides giving elevations for points not previously determined, affects, by its connections, many elevations in the net as already adjusted, the effect being necessarily greater in the vicinity of the new levelling than in regions more remote. But, if all new levelling is to be utilized to the fullest extent in securing elevations of the highest degree of accuracy in every part of the net, then, whenever new levelling forming links in the net is secured, the whole net must be re-adjusted and the old adjusted elevations must be completely superseded by the new.

"Neither of the radical plans indicated above—either to hold all old elevations without change and merely to fit new levelling to the old, or to supersede all old elevations by new ones—seems desirable; but a conservative procedure, intermediate between the two, is possible.

"If, after a complete re-adjustment of the level net, the change in the published elevation of any junction point required by the new adjustment is very small, or, in other words, elevations from the old and new adjustments agree closely, it seems best to hold the elevations already published. Especially does it seem certain that, whenever the change called for by the new adjustment is much smaller than the uncertainties in the new adjusted elevations, no change should be made. So, also, when, for any link in the net, the new adjustment gives a difference of elevation far within the limits of uncertainty of the new adjusted difference, it seems that the old difference of elevation should be held without change, even though a constant correction to the elevations along the line is found to be necessary."

Applying these principles to the adjustment of 1907, it was decided to hold, without change, all elevations in New York and many in Pennsylvania, all elevations and differences of elevation through the Great lakes, all elevations in North Carolina, Georgia, Tennessee, Kentucky, and many in Texas, and to hold many differences of elevation in Ohio.

Transcontinental Levelling in United States

In June, 1914, Hon. O. H. Tittmann, then Superintendent, U.S. Coast and Geodetic Survey, courteously supplied the following memorandum respecting Transcontinental levelling in the United States.

"Since the results of the first transcontinental line of precise levels were announced, two more connections between the eastern and the western levels have been made. For a proper comparison of the results it is necessary to consider the closure of the lines connecting the tide stations on the Pacific ocean with those on the Atlantic ocean and the gulf of Mexico. In each case the elevation is carried through the best lines in the level net. The elevation of mean sea level at Seattle, Washington, is carried from mean sea level at Sandy Hook, New York, is $+1.022$ metres. In other words, the elevation of any bench-mark on the level line between these two places would be 1.022 metres higher by the eastern line than by the western line.

"The elevation of mean sea level at San Francisco, California, carried from mean sea level at Galveston, Texas, is $+0.212$ metre. That is, the levels from the east give a higher elevation for a bench-mark than the levels from the west.

"The elevation of mean sea level at San Diego, California, as carried from Galveston, Texas, is $+0.643$ metre. That is, the levels from the east give a higher elevation for a bench-mark than the levels from the west.

"While the above evidence shows that the levels from the east give a higher elevation for a bench-mark than the levels from the west, still it is not conclusive that the difference is due to the direction of running the levels, since several factors may combine to give this result. There may be an actual difference in mean sea level at different places, but the correction per kilometre necessary to close the circuits involving the sea level at two places is comparable with the average correction per kilometre for circuits which close on one bench-mark.

"This Survey has not discovered any errors in recent levelling due to the direction of the running of the line."

CORRIGENDA*

- Page
- 10 Seventh line from bottom, for 766, read 772.1.
 - 11 Fifth line from top, for 856, read 858.2.
 - 14 Twenty-second line from bottom, for 3,406 and 3,380, read 3,411 and 3,387, respectively.
 - 14 Second line from bottom, for 4,107 read 4,197.
 - 19 Eleventh line from top, for 14, read 18.
 - 26 Fifth line from top, for 60, read 54.
 - 29 Twentieth line from bottom, for 35, read 30.
 - 45 Twenty-first line from top, for 403.8, read 417.6.
 - 47 Eleventh and twenty-third lines from top, for 597 and 612, read 596.6 and 613.3, respectively.
 - 48 Fifth line from bottom, for 364, read 564.
 - 60 Eighth and twenty-seventh lines from bottom, for 766, read 772.1.
 - 61 Third, seventh and twenty-ninth lines from bottom, for 766, 766 and 766, read 769.1, 772.1 and 772.1, respectively.
 - 63 Seventh line from bottom, for 766, read 772.1.
 - 64 Top line, for 785, read 784.3.
 - 72 Thirty-first and twenty-ninth lines from bottom, for 886 and 892, read 888.4 and 895.2, respectively.
 - 81 Twenty-sixth line from bottom, after No. 1, insert *McGregor lake*.
 - 81 Eighth line from bottom, for 3,233, read 3,240.
 - 86 Eleventh, thirty-fourth and thirty-eighth lines from top, *junction switch, East junction* and *West junction* are now *Forth, Olway and Ullin, respectively*.
 - 88 Ninth line from bottom, for 3,443 and 3,418, read 3,447.9 and 3,420.8, respectively.
 - 95 Tenth line from bottom, for 1402 read 1418, and for 1375 read 1382.
 - 95 Seventeenth line from bottom, for 1408 and 1560 read 1428 and 1380, respectively.
 - 102 Seventh line from bottom, for 2,182, read 2,682.
 - 103 Eleventh line from top, for 14, read 18.
 - 137 Delete foot-note.
 - 153 Last two lines, for 885 and 838 read 855 and 840.3, respectively.
 - 187 Thirteenth line from top, for 3,212, read 3,272.
 - 189 Twentieth, seventeenth and twelfth lines from bottom, for *Bulkley, Quick and Knockholt* read *Forestdale, Knockholt and Quick, respectively*.
 - 190 Third line from top, for *Duncan* read *Bulkley Cañon*.
 - 216 Twelfth line from top, for *Olga* read *Ola*.
 - 236 Eleventh line from top, for 191.7, read 197.1.
 - 247 Third line from top, for 1,573, read 1,543.
 - 249 Below second line from bottom, insert, 1,589.6 *Cranberry station*..... 2,656
 - 251 Above nineteenth line from bottom, insert, 1,841.7 *Basque station*..... 898
 - 252 Above twentieth line from bottom, insert, 1,960.5 *Laidlaw station*..... 94
 - 266 Fourteenth line from bottom, delete, *mean water 828*
 - 354 Above third line from bottom, insert, *Canadian Pacific Ry. crossing, C.P.Ry., rail, 725.9; A.E.Ry., rail 698.6*
 - 368 Seventeenth line from top, for *Otter Summit* read *Brookmere*.
 - 396 Fourteenth line from bottom, for 1,059, read 1,074.
 - 399 Twentieth line from bottom, for 1,313, read 1,355.
 - 405 Thirteenth line from bottom, for 936, read 922.
 - 405 Fourth line from bottom, for 637, read 634.
 - 406 Fourth line from top, for 830, read *high water, 874; low water 868*
 - 406 Sixth line from top, for 852, read *high water (1909), 869; (1910) 866*
 - 429 Sixth line from top, for 620.4, read 697.1.
 - 460 Second, fifth, seventh and eighth lines from top, for 911, 1,023, 1,010 and 1,310, read 915, 1,024, 1,008 and 1,321, respectively.
 - 460 Fifth and sixth lines from bottom, for 1530 and 1330 read 1329 and 1537 respectively.
 - 461 Delete twelfth line from bottom.
 - 515 Seventh line from top, for 4,946, 10,941, 2,189, read 4,957, 10,549, 2,196.
 - 518 Fourth line from top, for 700, read 705.
 - 544 Fourth line from bottom, for 2,897, read 2,885.
 - 547 Sixth line from top, for 3,102, read 3,129.
 - 555 Fifth and fourth lines from bottom, for 1,200, read 1,030.
 - 555 Fourth line from bottom, for 3,500-4,000, read 5,580.
 - 557 Ninth line from top, for 6,600, read 6,500.

*Most of the corrections are based upon recent precise levels. Where the changes are numerous, they are listed under Addenda, pp. 584-590.

ALTITUDES

IN

47.3	Point Fortune station, Que.	123.6
45.8	Interprovincial bou	171.8
48.2	St. Eugène station, Ont.	180.9

NOTE.—Except where otherwise stated, the elevation refers to base of rail opposite station buildings or middle of bridge or middle of siding. Cities, divisional points, larger towns and termini are printed in heavy-face type.

• For additional elevations between Montreal and North Bay, see under "Bench marks and sundry elevations determined by Dept. of Public Works."

CORRIGENDA*

Page

- 10 Seventh line from bottom, for 766, read 772.1.
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- 43 Twenty-first line from top, for 403.8, read 417.6.
- 47 Eleventh and twenty-third lines from top, for 597 and 612, read 596.6 and 613.3, respectively.
- 48 Fifth line from bottom, for 364 read 564

Elevations on the following lines, if to tenths of foot, are from Geodetic Survey determinations and refer to *top* of rail:

CANADIAN PACIFIC RAILWAY
 Main Line, west of Port Arthur
 Dominion Atlantic Railway
 Short Line
 St. Andrews Branch
 St. Stephen Branch
 Shore Line
 Edmundston Branch
 Aroostook Branch
 Quebec Central Railway
 Drummondville Branch
 Stanbridge Branch
 Newport Branch
 Ontario and Quebec Line, west of St. Polycarpe
 Prescott Branch
 Owen Sound Branch
 Toronto and Sudbury
 Sault Ste. Marie Branch
 La Riviere Branch
 Lyleton Branch
 Souris Branch
 Portal Branch
 Macleod Branch
 Aldersyde Branch
 Coutts Branch
 Crowsnest Line
 GRAND TRUNK RAILWAY
 Main Line, west of Prescott
 Ottawa Division, west of Renfrew
 Niagara Falls and Windsor
 Toronto and Hamilton

Loop Line
 Southampton Branch
 Kincardine Branch
 London and Wingham
 Tillsonburg Branch
 Welland Branch
 Owen Sound Branch
 NATIONAL TRANSCONTINENTAL RAILWAY
 GRAND TRUNK PACIFIC RAILWAY
 Main Line, west of Saskatoon
 Regina Branch
 HALIFAX AND SOUTHWESTERN RAILWAY
 CANADIAN NORTHERN RAILWAY
 Picton and Maynooth Branch
 Main Line, east of Winnipeg
 North Lake Branch
 Ridgeville Branch
 Regina and Prince Albert Branch, Regina
 Warman
 INTERCOLONIAL RAILWAY
 Mulgrave Branch
 Oxford Branch
 Fredericton Branch
 International Railway
 TEMISCOUATA RAILWAY
 BOSTON AND MAINE RAILROAD
 MAINE CENTRAL RAILROAD
 NEW YORK AND OTTAWA RAILWAY
 PERE MARQUETTE RAILROAD
 GREAT NORTHERN RAILWAY

- 544 Fourth line from bottom, for 2,697, read 2,885.
- 547 Sixth line from top, for 3,102, read 3,129.
- 555 Fifth and fourth lines from bottom, for 1,200, read 1,030.
- 555 Fourth line from bottom, for 3,500-4,000, read 5,580.
- 557 Ninth line from top, for 6,600, read 6,500.

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ALTITUDES

IN

THE DOMINION OF CANADA

Miles from
Montreal

CANADIAN PACIFIC RAILWAY—MAIN LINE

Elevation
above mean
sea level

Montreal to Vancouver

0.0	Montreal, Windsor station	110
1.7	Westmount station	152
3.1	Summit	192
4.8	Montreal junction	157
7.0	Western junction, with Jacques Cartier Union Ry	137
8.8	Golf Links station	108
9.6	Dorval	89.0*
11.5	Strathmore ".....	89
12.1	Valois ".....	89.1
12.7	Lakeside ".....	96.7
13.5	Cedar Park ".....	11.7
14.2	Pointe Claire ".....	11
15.0	Beaconsfield ".....	107.0
16.9	Beaurepaire ".....	106.8
18.6	Baie d'Urfé ".....	114.1
20.4	Ste. Anne ".....	117.7
20.8	Ottawa river, Ste. Anne bridge, water, 71; rail	111.0
23.4	Vaudreuil bridge " 71; "	94
23.7	Vaudreuil, junction with Ontario and Quebec line	86.1
26.9	Isle Cadieux station	94.3
30.1	Como station	99.3
32.2	Hudson ".....	91.6
32.7	Hudson Heights station	87.9
36.2	Choisy station	105.6
40.2	Rigaud station	103.9
40.3	River Rigaud, bed, 65; rail	104.2
40.5	Mando, Point Fortune branch switch	106.8
47.3	Point Fortune station, Que.	123.6
45.8	Interprovincial boundary	171.8
48.2	St. Eugène station, Ont.	180.9

NOTE. Except where otherwise stated, the elevation refers to base of rail opposite station buildings or middle of bridge or middle of siding. Cities, divisional points, larger towns and termini are printed in heavy-face type.

* For additional elevations between Montreal and North Bay, see under "Bench marks and sundry elevations determined by Dept. of Public Works."

Miles from
Montreal

CANADIAN PACIFIC RAILWAY—MAIN LINE

Elevation
above mean
sea level*Montreal to Vancouver*

53.4	Stardale station (summit).....	290.4
57.0	Grand Trunk, Hawkesbury branch, crossing.....	263.8
57.6	Vankleek Hill station.....	271.5
60.1	McAlpin station.....	221.8
65.2	Caledonia Springs station.....	167.4
69.8	Alfred.....	177.5
74.3	South Nation river, high water (1862), 163.2; (Mar. 17, 1898), 158.5; ordinary high water 156.5; extreme low water, 147.6; rail.....	169.7
74.6	Plantagenet station.....	159.5
77.0	Summit, ground, 250; rail.....	247
79.8	Pendleton station.....	233.1
80.9	Brook, high water, 177; bed, 170; rail.....	194.5
82.3	Cobb brook, high water (Mar. 17, 1898), 164; bed, 154; rail.....	165.6
85.4	Bourget station.....	214.8
88.0	North Indian brook, bed, 192; rail.....	211.4
88.9	Hammond, Grand Trunk Ry., Rockland branch, crossing.....	219.6
91.4	Summit.....	279
94.3	Leonard station.....	271.6
97.3	Brook, bed, 240; rail.....	260
98.6	Navan station.....	240.0
104.9	Blackburn.....	229.0
107.0	Greens creek, bed, 200; rail.....	218
109.4	New York and Ottawa Ry. junction, Prescott branch, crossing.....	197.1
109.7	Rideau river, high water (Mar. 14, 1898) 192; low water, 180; rail.....	197.7
111.0	Ottawa, Central station.....	213.7
111.7	Ottawa river, Alexandra bridge, highest water recorded (May 28, 1909), 149.3; high water (April 24, 1896), 147.8; lowest re- corded water (Oct. 1, 1881), 127.0; average low water 129.3; bottom of bridge 184.2; base of rail.....	192.3
113.0	Maniwaki junction, with Maniwaki branch.....	167.0
113.6	Hull, junction with Waltham branch.....	190.9
114.9	Ottawa river, Prince of Wales bridge, high water (1876), 177; (1877) 169; (1878), 170; (1879), 165; rail.....	190.8
115.5	Ottawa, Broad St. station.....	181.0
120.7	Britannia station.....	202.8
121.3	Ottawa river, Deschênes lake, low water.....	190.8
122.6	Grand Trunk, Ottawa division, crossing, G.T. Ry., rail, 241.6; Can. Pac. Ry., rail.....	217.7
126.3	Nepean station.....	372
130.4	Stittsville station.....	399
134.2	Summit.....	490
139.2	Ashton station.....	449
144.0	Carleton, junction with Brockville branch, north track.....	449
144.6	Mississippi river, high water, 430; low water, 424; bed, 420; rail.....	444
150.9	Almonte station.....	398
151.4	Mississippi river, water, 367; bed, 363; rail.....	401
154.6	Snedden station.....	378
159.4	Mississippi river, high water, 298; low water, 293; rail.....	325
159.8	Pakenham station.....	324
163.9	Waba station.....	338
167.1	Madawaska river, high water, 259; low water, 242; Ottawa river, at mouth of Madawaska, high water, 246; low water, 239.6; rail.....	289
167.6	Arnprior station.....	300
168.0	Grand Trunk Ry., Ottawa division, crossing.....	300.1

Miles from
Montreal

CANADIAN PACIFIC RAILWAY—MAIN LINE

Elevation
above mean
sea level*Montreal to Vancouver*

170.7	Braeside station.....	278.6
172.9	Sand Point station.....	264.8
178.0	Castleford station.....	263
182.6	Russell station.....	415.4
185.8	Renfrew, junction with Kingston and Pembroke branch.....	415.8
186.8	Bonnechère river, water, 365; bed, 353; rail.....	388.1
189.6	Eganville junction, with Eganville branch.....	405.0
193.5	Summit.....	542
194.6	Haley station.....	528.6
197.7	Gould creek, water, 465; rail.....	477.0
198.6	Rox station.....	502
200.5	Water tank.....	478
201.6	Cobden station.....	474.9
207.1	Snake River station.....	423.0
207.3	Snake river, water, 405; rail.....	415.2
210.8	Meath station.....	415.5
210.9	Muskrat river, water, 408; rail.....	415.7
213.5	Summit, rail.....	466
215.3	Government Road station.....	422.1
220.6	Pembroke station.....	380.2
220.8	Bay of Ottawa river, high water, (May, 1876), 374; low water 365.3; rail.....	380
225.8	Stafford station.....	473
230.7	Petawawa station.....	466.6
231.0	Petawawa river, water, 436; bed, 430; rail.....	459.7
232.4	Military Camp station.....	484
235.2	Summit.....	515
237.1	Thistle station.....	508.2
239.6	Chalk river, water, 477; bed, 471; rail.....	486.5
242.3	Chalk River station.....	523.0
247.8	Wylie station.....	527.7
251.8	Bass Lake station.....	58.9
254.6	Summit, ground, 713; rail.....	699
257.5	Moorlake station.....	665.6
258.9	Moore lake, water.....	613
262.7	Ashport station.....	544
266.5	Mackey station.....	431.1
268.2	Heney brook, water, 401; rail.....	418
270.6	Stonecliff (formerly Rockcliffe) station.....	475.9
276.1	Adelard station.....	561
280.5	Bissett station.....	548.6
283.7	Gratan station.....	701
287.6	Summit.....	750
288.5	Aylen station.....	730
293.2	Deux Rivières station.....	519.1
294.2	Ottawa river, Kelly bay, high water, (May 10, 1880), 482; low water, 469; rail opposite.....	498
299.1	Hodgson station.....	506
303.9	Klock station.....	528.5
308.0	Rankin station.....	571
314.5	Mattawa, junction with Timiskaming branch.....	562.4
315.4	Boom creek, water, 523; rail.....	554
320.5	Calvin station.....	686
325.5	River Amable-du-Fond, water, 553; rail.....	576.7
326.7	Eau Claire station.....	589.0

ALTITUDES IN CANADA

Miles from
Montreal

CANADIAN PACIFIC RAILWAY—MAIN LINE

Elevation
above mean
sea level*Montreal to Vancouver*

333.4	Rutherglen station.....	788.7
336.4	Summit, rail.....	844
340.5	Bonfield station.....	781.7
344.5	Nasbonging station.....	784.8
350.3	Corbeil station.....	733.1
354.1	Cliffe station.....	699.4
355.3	Canadian Northern Ry., main line crossing, C.N. Ry. rail, 691; C.P. Ry., rail.....	662
355.7	Nipissing, Grand Trunk Ry., Toronto and North Bay, crossing....	673.6
360.0	North Bay station.....	662
363.1	Lake Nipissing, high water, 647.8; low water.....	640.5
365.8	Yellek station.....	685
370.0	Beaucage station.....	668
374.5	Meadowside station.....	665
383.3	Sturgeon Falls station.....	689
383.6	Sturgeon river, bed, 642; rail.....	690
386.4	Cache Bay station.....	655
393.9	Verner station.....	673
398.0	Kirk station.....	678
403.0	Warren station.....	691
408.0	Hagar station.....	680
415.1	Markstay station.....	690
422.8	Stinson station.....	866
427.1	Wanapitei station.....	800
427.2	Wanapitei river, high water, 793; bed, 761; rail.....	800
430.5	Canadian Northern Ry., Toronto and Sudbury line, crossing.....	820
432.2	Coniston station.....	820
433.2	Romford, junction with Toronto and Sudbury line.....	846
439.2	Sudbury, junction with Sault Ste. Marie branch.....	857
442.0	Murray station (summit).....	1,002
448.3	Azilda station.....	893
451.3	Chelmsford station.....	889
451.5	Deadfall brook, bed, 854; rail.....	889
456.3	Larchwood station.....	886
457.2	Vermilion river, water, 845; rail.....	867
462.5	Levack station.....	1,090
467.6	Windy Lake station.....	1,233
474.6	Cartier station.....	1,378
478.0	Geneva station.....	1,377
482.3	Benny station.....	1,266
485.5	Summit, ground, 1,392; rail.....	1,367
487.9	Stralak station.....	1,357
489.6	Nitro station.....	1,230
494.6	Pogma station.....	1,158
497.8	Spanish river, water, 1,154; rail.....	1,165
499.7	Fluorite station.....	1,198
502.3	Summit, ground, 1,282; rail.....	1,258
505.7	Forks station.....	1,229
506.2	Bay of Spanish river, water, 1,189; rail.....	1,195
508.9	Summit, ground, 1,330; rail.....	1,319
511.3	Metagama station.....	1,268
515.0	Sinker station.....	1,273
515.3	West branch Spanish river, water, 1,262; bed, 1,253; rail.....	1,268
518.7	Eureka lake, high water, 1,379; low water.....	1,371
519.4	Eureka station.....	1,387

Elevation
above mean
sea levelMiles from
Montreal

CANADIAN PACIFIC RAILWAY—MAIN LINE

Elevation
above mean
sea level*Montreal to Vancouver*

788.7	521.5	Summit, ground, 1,408; rail.....	1,396
844	525.1	Houghton lake, water.....	1,321
781.7	525.2	Drefal station.....	1,327
784.8	529.0	Bisco station.....	1,334
733.1	529.1	Biscotasing lake, water, 1,317; rail.....	1,328
699.4	533.3	Summit, ground, 1,410; rail.....	1,407
	534.9	Roberts station.....	1,355
662	542.9	Pogamasing river, water, 1,334; rail.....	1,350
673.6	545.4	Ramsay station (summit).....	1,398
662	549.7	Cat lake, water, 360; rail.....	1,376
640.5	552.4	Pogamasing river, water, 1,377; rail.....	1,386
685	553.3	Summit (height-of-land between lake Huron and Hudson bay)	
668		ground, 1,417; rail.....	1,411
665	554.6	Branch of Woman river, bed, 1,376; rail.....	1,382
689	560.7	Woman river, water, 1,431; rail.....	1,438
690	560.8	Woman River station.....	1,439
655	562.8	Summit, ground, 1,523; rail.....	1,510
673	564.3	Brook, bed, 1,449; rail.....	1,464
678	566.2	Wakami station.....	1,471
691	567.4	Summit, rail.....	1,493
680	569.8	Winnebago river, water, 1,423; rail.....	1,447
690	571.1	Sultan station.....	1,437
866	573.2	Summit, ground, 1,486; rail.....	1,471
800	577.3	Ridout station.....	1,364
800	582.2	Apiskinagama river, water, 1,348; rail.....	1,359
820	583.5	Summit, rail.....	1,408
820	584.4	Kinagama station.....	1,395
846	589.9	Tophet station.....	1,445
857	592.7	Summit, ground, 1,489; rail.....	1,482
902	595.3	Nemegosenda river, water, 1,414; rail.....	1,420
893	595.5	Nemegos station.....	1,421
889	601.1	Summit, ground, 1,512; rail.....	1,508
889	601.8	Poulin station.....	1,499
886	604.6	Lake Poulin, water.....	1,476
867	610.7	Kebsquashesi river, high water, 1,401; low water, 1,398; rail.....	1,409
900	612.0	Chapleau station.....	1,412
233	612.4	Kebsquashesi lake, high water, 1,402; low water, 1,398; rail.....	1,413
378	616.8	Grace lake, water.....	1,453
377	618.9	Esher station.....	1,472
266	620.5	Lake Wangoom, high water.....	1,480
367	622.1	Summit, ground, 1,558; rail.....	1,539
357	623.6	Lake Como, water.....	1,497
230	625.8	Summit, height-of-land between lake Huron and Hudson bay.....	1,530
158	626.3	Pardee station.....	1,524
165	631.9	Musk station.....	1,411
198	635.3	Lake Windermere, high water, 1,408; low water.....	1,403
258	639.4	Summit, ground, 1,464; rail.....	1,447
229	641.4	Wayland station.....	1,432
195	641.8	Echo lake, water.....	1,429
319	643.2	Summit, ground, 1,471; rail.....	1,459
268	645.7	Goldie station.....	1,385
273	645.9	Delmage lake, water.....	1,380
268	649.7	Bolckow station.....	1,375
371	654.8	Shumka station.....	1,181
387	656.3	Brook, water, 1,092; rail.....	1,131

ALTITUDES IN CANADA

Miles from
Montreal

CANADIAN PACIFIC RAILWAY—MAIN LINE

Elevation
above mean
sea level*Montreal to Vancouver*

657.8	Dalton station.....	1,155
658.7	Oasiwiwi brook, water, 1,115; bed, 1,111; rail....	1,148
662.2	Summit, rail.....	1,254
663.7	Carry station.....	1,218
667.1	Cowslip station.....	1,144
670.9	Dog lake, "Lochalsh narrows," water.....	1,683
671.8	Missinaibi station.....	1,098
674.1	Summit, ground, 1,159; rail.....	1,133
675.6	Lochalsh river, high water, 1,089; low water, 1,084; rail....	1,092
678.1	Loch Lomond river, water, 1,087; bed, 1,083; rail.....	1,114
678.3	Gutelius station.....	1,115
682.0	Lochalsh station.....	1,175
684.3	Trout brook, water, 1,165; rail.....	1,180
687.2	Pick station.....	1,308
687.9	Summit, ground, 1,346; rail.....	1,331
690.9	Otter station.....	1,203
694.2	Hobon station.....	1,223
695.6	Franz, junction with Algoma Central and Hudson Bay Ry.	1,219
698.8	Williams station.....	1,180
702.1	Magpie river and lake, water, 1,130; rail.....	1,156
702.6	Swanson station.....	1,163
707.2	Grasett station.....	1,238
714.4	Girdwood station (summit).....	1,433
718.1	Chisholm brook, water, 1,397; bed, 1,394; rail.....	1,430
719.4	Summit, ground, 1,526; rail.....	1,495
723.7	Amyot station.....	1,382
724.4	Birch lake, water.....	1,363
728.9	Birch station.....	1,372
731.7	White river, water, 1,300; rail.....	1,320
734.3	O'Brien station (summit).....	1,440
737.0	Whitefish brook, water, 1,327; rail.....	1,360
738.5	Depew station.....	1,317
742.1	White river, water, 1,237; rail.....	1,243
743.8	White River station.....	1,225
747.3	Tarpon station.....	1,233
748.0	Summit, ground, 1,290; rail.....	1,264
751.9	Denison station.....	1,182
755.4	Redlite station.....	1,150
756.6	White river, water, 1,144; bed, 1,137; rail.....	1,155
759.9	Bremner station.....	1,132
764.6	White lake, water.....	1,075
767.3	Mobert station.....	1,094
767.8	White river, high water, 1,075; low water, 1,070; rail....	1,083
770.8	Summit, ground, 1,155; rail.....	1,128
773.6	Trudeau station.....	1,045
777.1	Cedar river, water, 1,028; rail.....	1,039
777.5	Struthers station.....	1,039
779.4	Summit, ground, 600 ft. east, 1,110; rail.....	1,101
784.0	Hemlo station.....	976
785.1	Cache lake, water.....	962
788.3	Pringle station.....	887
793.9	Melgund station.....	821
794.7	Black Pic river, water, 760; rail.....	809
798.7	Pic river, water, 605; rail.....	689
799.5	Heron Bay station.....	714

CANADIAN PACIFIC RAILWAY

7

Elevation
above mean
sea level

Miles from
Montreal

CANADIAN PACIFIC RAILWAY MAIN LINE

Elevation
above mean
sea level

Montreal to Vancouver

155	801.7	Summit, ground, 500 ft. west, 786; rail.	760
148	806.0	Depression, ground, 656; rail.	676
254	807.2	Summit, ground, 500 ft. west, 737; rail.	728
218	808.0	Peninsula station.	709
144	811.3	Angler station.	710
683	814.7	Summit (Otter lake, water, 756), rail.	758
098	818.7	Coldwell station.	718
133	821.9	Summit, ground, 902, rail.	874
092	822.1	Ney station.	862
114	825.3	Little Pic river, water, 611; rail.	692
115	827.1	Middleton station.	690
175	830.1	Depression, ground, 618; rail.	640
180	831.6	Ripple station.	670
308	835.5	Summit, rail.	742
331	835.8	Steel station.	740
203	838.0	Steel lake, water.	694
223	839.1	Steel river, water, 609; bed, 607; rail.	672
219	840.9	Santoy station.	705
180	843.7	Jackfish station.	636
156	848.2	Noslo station.	696
163	848.8	Blackbird brook, water, 620; rail.	699
238	854.4	Black station.	396
433	854.8	Black river, water, 821; rail.	889
430	858.3	Bluejay station.	975
495	859.2	Summit, ground and rail.	1,016
382	861.0	Depression, ground, 872; rail.	956
663	862.7	Schreiber station.	996
372	864.1	Summit, ground, 1,037; rail.	1,027
329	867.7	Horn station.	867
140	870.2	Winston station.	766
360	871.6	Selim station.	715
317	871.9	Maggot river, water, 652; rail.	705
443	877.0	Rossport station.	646
225	883.7	Pays Plat river, water, 605; rail.	613
433	884.5	Pays Plat station.	625
264	890.0	Summit, rail.	660
82	7	Tunnel, rail.	647
50	894.1	Gravel station.	629
55	895.9	Gravel river, water, 610; rail.	623
32	898.8	Hartry station.	614
775	901.3	Gurney station.	627
94	901.8	Cypress river, water, 614; rail.	629
83	905.1	Dublin station.	689
28	906.2	Summit, ground and rail.	724
45	909.1	Jackpine river, bed, 623; rail.	645
39	909.4	Kama station.	642
39	914.0	Ozone station.	631
01	916.2	Jackfish river, water, 602; rail.	624
76	918.0	Fire Hill station.	609
62	922.0	Ruby station.	693
87	924.2	Summit, ground, 728; rail.	718
21	925.1	Nipigon river, high water, 604; mean water, 602; rail.	687
09	925.9	Nipigon station.	682
89	928.6	Depression, rail.	610
14	931.3	Red Rock station.	642

Miles from
Montreal

CANADIAN PACIFIC RAILWAY--MAIN LINE

Elevation
above mean
sea level*Montreal to Vancouver*

932.0	Trout brook, water, 628; rail	647
935.0	Sprucewood station (summit)	692
936.6	Black Sturgeon river, water, 614; rail	669
938.2	Coglin station	672
943.8	Hurkett (formerly Wolf River) station	610
945.8	Wolf river, water, 606; rail	623
948.2	Dorion station	682
951.7	Ouimet station	743
959.0	Pearl station	847
959.1	Pearl river, water, 844; rail	855
964.7	Loon station	1,049
965.9	Summit, ground, 1,096; rail	1,069
968.7	Mackenzie river, water, 993; rail	1,004
971.5	Beck station	957
976.1	Mackenzie river, water, 896; rail	905
976.7	Mackenzie station	913
983.3	Navilus station	754
989.2	Current river, water, 633; rail	642
991.2	Port Arthur station	614.5
992.4	Canadian Northern Ry. crossing	607.2
	Lake Superior, standard low water, 600.8; high water, 604.8; mean water (1871-1900)	601.7
995.6	Fort William station	617.4
997.6	Kaministiquia river, low water (1879), 600.8; high water (1879)	613
998.3	Westfort station	632
998.8	Canadian Northern Ry. crossing	635.8
1,003.2	Neebing station	710
1,008.0	Murillo station	948
1,017.8	Strawberry brook, high water, 989; low water, 986; rail	998
1,019.6	Kaministiquia station	1,017
1,020.0	Kaministiquia river, high water, 1,001; low water, 997; rail	1,017
1,024.2	Matawin river, low water, 1,086; high water, 1,093; rail	1,102
1,028.7	Finmark station	1,183
1,036.0	Buda station (summit)	1,477
1,036.9	Oskondiga river, bed, 1,420; water, 1,426; rail	1,458
1,037.8	Tunnel, rail (51 ft. below top of rock above)	1,465
1,043.9	Oskondiga river, water, 1,423; rail	1,446
1,049.6	Raith station (height-of-land between lake Superior and Hudson bay)	1,584
1,051.5	Southeast branch Savanne river, water, 1,547; rail	1,556
1,053.6	Southeast branch Savanne river, water, 1,540; rail	1,548
1,061.1	Poland station (closed)	1,544
1,067.5	Savanne station	1,508
1,067.7	North branch Savanne river, water, 1,500; rail	1,508
1,079.9	Upsala station	1,587
1,084.3	Hay lake, water	1,505
1,089.7	Fire-steel river, water, 1,505; rail	1,513
1,093.1	Niblock station	1,536
1,094.1	Beaver river, water, 1,526; rail	1,532
1,101.8	Burnt river, water, 1,510; rail	1,520
1,105.5	Hawk lake, water	1,509
1,107.1	English river, water	1,514
1,107.9	English station	1,516
1,108.5	Scotch river, water, 1,510; rail	1,515
1,114.1	Martin station	1,557
1,114.3	Summit, rail	1,568

Miles from
Montreal

CANADIAN PACIFIC RAILWAY -MAIN LINE

Elevation
above mean
level*Montreal to Vancouver*

1,117.1	Depression, rail.....	1,485
1,123.7	Summit, rail.....	1,549
1,124.1	Bonheur station.....	1,530
1,128.1	Summit, rail.....	1,554
1,128.4	South lake, water.....	1,496
1,131.5	Depression, rail.....	1,478
1,135.6	Gull river, water, 1,458; rail.....	1,488
1,143.0	Abgimac river, bed, 1,467; rail.....	1,489
1,143.6	Ignace station.....	1,486
1,145.1	Quarry spur.....	1,487
1,148.6	Osaquan station.....	1,429
1,150.4	Osaquan river, bed, 1,413; rail.....	1,423
1,157.4	Little Wabigoon river, bed, 1,396; rail.....	1,407
1,157.9	Raieigh station.....	1,415
1,158.7	Glencoe river, bed, 1,399; rail.....	1,408
1,168.4	Little Wabigoon river, bed, 1,349; rail.....	1,367
1,171.5	Taché station.....	1,367
1,173.7	Burnt-stick brook, bed, 1,313; rail.....	1,347
1,175.1	Kirkpatrick brook, bed, 1,319; rail.....	1,352
1,177.7	Dyment station.....	1,350
1,178.0	Bear brook, bed, 1,334; rail.....	1,351
1,179.4	Kennebutch lake, water.....	1,337
1,186.3	Little Wabigoon lake, water.....	1,210
1,188.5	Dinorwic station.....	1,240
1,191.9	Summit, rail.....	1,256
1,193.6	Wabigoon lake, water.....	1,210
1,194.1	Wabigoon station.....	1,215
1,196.0	Blackwater brook, water, 1,210; rail.....	1,214
1,197.1	Thunder brook, water, 1,210; rail.....	1,229
1,199.2	Elm Bay spur.....	1,243
1,200.3	Barclay station.....	1,255
1,203.0	Summit, ground, 1,281; rail.....	1,271
1,206.9	Dryden station.....	1,224
1,207.0	Wabigoon river, water, 1,186; rail.....	1,224
1,211.7	Shoshogawae river, bed, 1,154; rail.....	1,164
1,213.4	Oxdrift station.....	1,165
1,217.4	Beaver river (1st crossing), bed, 1,131; rail.....	1,153
1,218.0	Beaver river (2nd crossing) bed, 1,132; rail.....	1,142
1,218.6	Minnitaki station.....	1,143
1,221.0	Beaver river (3rd crossing), bed, 1,126; rail.....	1,157
1,223.7	Eagle River station.....	1,191
1,224.0	Eagle river, water, 1,170; rail.....	1,195
1,228.4	Summit, ground, 1,275; rail.....	1,273
1,229.1	Waldhof spur.....	1,260
1,233.6	Vermilion Bay station.....	1,229
1,238.5	Eagle lake, water, 1,192; rail.....	1,216
1,241.7	Gilbert wye.....	1,210
1,242.6	Edison station.....	1,212
1,251.9	Summit, ground and rail.....	1,385
1,254.1	Pine station.....	1,381
1,257.8	Summit, ground, 1,393; rail.....	1,389
1,265.0	Hawk Lake station.....	1,292
1,267.2	Narrow lake, water.....	1,237
1,276.5	Scovil station.....	1,202
1,282.0	Margach station.....	1,155

Miles from Montreal	CANADIAN PACIFIC RAILWAY—MAIN LINE	Elevation above mean sea level
<i>Montreal to Vancouver</i>		
1,289.8	Kenora station.....	1,091
1,291.0	Winnipeg river, low water, 1,056; rail.....	1,089
	Lake of the Woods, water, (1878), 1,058; (1879), 1,063; high water (Nov. 11, 1900), 1,062.2; low water (Mar. 24, 1894), 1,056.5; water, July 16, 1913.....	1,060.8
1,292.0	Keewatin station.....	1,086
1,293.7	Winnipeg bay, water, 1,052; rail.....	1,071
1,297.9	War Eagle lake, water.....	1,080
1,302.9	Busteed station.....	1,187
1,313.4	Kalmar station (closed).....	1,220
1,321.1	Ingolf station, Ont.....	1,191
1,322.6	Interprovincial boundary, Ontario and Manitoba.....	1,164
1,326.3	Cross lake, water.....	1,050
1,330.7	Depression, rail.....	1,058
1,334.2	Telford station, Man.....	1,113
1,340.6	Brenton river, water, 1,048; rail.....	1,057
1,341.9	Rennie station.....	1,058
1,344.5	Grand Trunk Pacific Ry. (National Transcontinental) crossing, G.T.P. Ry., rail, 1,062.7; C.P. Ry., rail.....	1,035.5
1,355.4	Darwin station.....	960
1,361.1	Whitemouth river, ice, 882; high water, 893; flood, 901; rail.....	905
1,361.8	Whitemouth station.....	911
1,367.8	Shelley station.....	930
1,373.3	Julius station.....	932
1,377.6	Molson, junction with Lac du Bonnet branch.....	883
1,383.8	Sinnot station.....	801
1,386.8	Beauséjour station.....	816
1,390.5	Saldo station.....	812
1,393.3	Tyndall station.....	800
1,395.4	Garson station.....	777
1,400.1	East Selkirk station.....	751
	Red river, two miles west of East Selkirk, ice (1876, probably two feet above extreme low water), 720; flood (1876), 731; flood (1875), 723; extreme high water, flood (1826), 740; range 22 feet	718-740
1,401.1	Cook brook, water (May 18, 1877), 737; rail.....	757
1,407.6	Gonor station.....	762
1,414.7	Birds Hill station.....	768
1,415.1	Canadian Northern Ry., Winnipeg and Northern, crossing.....	763
Eastbound track	1,384.8 Lydiatt station.....	825
	1,389.5 Cloverleaf ".....	837
	1,396.2 Hazelridge ".....	796
	1,398.5 Cook brook, water (June 12, 1913), 787; rail.....	795
	1,402.5 Oakbank station.....	812
	1,409.0 Norcran station, Canadian Northern Ry. crossing.....	773
	1,409.6 North Transcona station.....	769
	1,414.3 Whittier junction.....	764
	1,415.0* Red river, flood (1826), 759; (1882), 745; rail.....	765
	1,415.7 Winnipeg, junction with Emerson, Winnipeg Beach, Arborg, L. Rivière and Southwestern branches.....	766
1,417.6	Rugby junction.....	764
1,421.5	Canadian Northern Ry., Oak Point branch, crossing.....	785
1,423.2	Bergen station.....	786
1,430.9	Rosser station.....	800
1,438.1	Meadows station.....	795
1,444.6	Marquette station.....	810

*1421.8 miles *via* "Westbound" track

CANADIAN PACIFIC RAILWAY

11

Miles from
Montreal

CANADIAN PACIFIC RAILWAY—MAIN LINE

Elevation
above mean
sea level*Montreal to Vancouver*

1,450.9	Reaburn station.....	809
1,451.4	Long lake, low water, 802; high water....	807
1,456.1	Poplar Point station.....	817
1,464.4	High Bluff station.....	832
1,471.2	Portage la Prairie station, junction with Portage la Prairie and Wetaskiwin line.....	856
1,472.2	Canadian Northern Ry., main line, crossing	860
1,472.3	Grand Trunk Pacific Ry., main line, crossing	860
1,479.3	Burnside station.....	874
1,483.3	Dickens station (closed).....	918
1,487.0	Bagot station.....	941
1,488.7	Rat brook, water, 867; rail.....	895
1,493.6	McGregor, junction with Varcoe branch	961
1,499.2	Image brook, water, 944; rail.....	958
1,500.6	Austen station.....	1,020
1,504.6	Panser station (closed)	1,112
1,508.2	Sydney station.....	1,237
1,513.9	Melbourne station.....	1,252
1,521.3	Canadian Northern Ry., Carberry branch, crossing	1,261
1,521.5	Carberry station.....	1,262
1,523.3	Pine brook, water, 1,123; rail.....	1,227
1,530.2	Sewell station.....	1,250
1,537.4	Douglas station.....	1,225
1,539.0	Grand Trunk Pacific Ry., Brandon branch, crossing, G.T.P. Ry., rail, 1,241; C.P. Ry., rail.....	1,217
1,543.2	Chater, junction with Rapid City branch	1,219
1,547.0	Assiniboine river, water, 1,165; rail	1,183
1,548.7	Brandon station.....	1,204
1,556.9	Kemnay, junction with Souris branch.....	1,370
1,564.4	Alexander station.....	1,415
1,573.5	Griswold station.....	1,428
1,580.9	Oak Lake station	1,423
1,584.7	Temple station	1,413
1,589.0	Routledge station.....	1,422
1,596.2	Virten, junction with McAuley branch.....	1,451
1,599.0	Homestead station	1,488
1,604.4	Hargrave station.....	1,587
1,608.5	Reaper station.....	1,635
1,612.8	Elkhorn station.....	1,610
1,615.8	Kenage station.....	1,649
1,619.4	Kirkella, junction with Kirkella and Lanigan branch.....	1,696
1,627.0	Fleming station.....	1,799
1,631.1	Rotave station.....	1,854
1,635.4	Moosomin station.....	1,892
1,642.6	Red Jacket station.....	1,923
1,646.5	Coothill station.....	1,938
1,651.5	Wapella station.....	1,939
1,659.1	Burrows station.....	1,955
1,665.6	Whitewood station.....	1,973
1,672.6	Perceval station.....	2,046
1,674.3	Summit, rail.....	2,062
1,676.0	Nassau station (closed)	2,042
1,680.2	Broadview station	1,968
1,684.8	Sims station.....	1,947
1,688.2	Oakshela station.....	1,959

Miles from
Montreal

CANADIAN PACIFIC RAILWAY—MAIN LINE

Elevation
above mean
sea level*Montreal to Vancouver*

1,692.7	Mantle station.....	1,959
1,696.2	Grenfell ".....	1,964
1,700.8	Ingram ".....	1,916
1,703.7	Summerberry station.....	1,945
1,707.6	Falcon ".....	1,989
1,711.4	Wolseley, junction with Reston and Wolseley branch.....	1,955
1,716.6	Grainer station.....	2,004
1,720.2	Sintaluta ".....	1,986
1,725.4	Dingley ".....	1,946
1,730.9	Indian Head station.....	1,927
1,734.4	Winro ".....	2,004
1,740.0	Qu'Appelle ".....	2,132
1,744.3	Celtic ".....	2,223
1,746.9	Lillis ".....	2,263
1,748.9	McLean ".....	2,286
1,750.8	Summit, rail.....	2,288
1,752.3	Calva station (closed).....	2,287
1,757.8	Balgonie station.....	2,192
1,764.3	Pilot Butte station.....	2,022
1,772.2	Crecy, junction with Colonsay branch.....	1,878
1,773.0	Regina station.....	1,896.4
1,774.7	Grand Trunk Pacific Ry. crossing.....	1,883.6
1,775.0	Wascana river, rail.....	1,872
1,777.2	Pinkie station.....	1,892.6
1,782.5	Grand Coulée station.....	1,868.0
1,785.1	Grand Coulée brook, rail.....	1,890
1,786.4	Rufus station.....	1,854
1,789.8	Pense station.....	1,891.9
1,794.0	Summit.....	1,925
1,797.5	Belle Plaine station.....	1,915.1
1,802.6	Madrid station.....	1,891.1
1,807.8	Pasqua, junction with Portal branch.....	1,880.2
1,810.9	Ernst station (closed).....	1,858
	Canadian Northern Ry., Moose Jaw branch, crossing, C.N. Ry., rail, 1,809; C.P. Ry., rail.....	1,782
1,814.6	Moose Jaw, junction with Expanse and Outlook branches.....	1,778.7
1,815.2	Curle, Expanse Branch switch.....	1,794
1,816.9	Colwyn, Outlook Branch switch.....	1,778
1,818.9	Zola station (closed).....	1,802
1,822.8	Boharm station.....	1,802.7
1,830.8	Caron station.....	1,850.4
1,840.2	Mortlach station.....	1,987.8
1,849.3	Parkbeg station.....	2,076.1
1,854.8	Melba station.....	2,184
1,859.3	Summit (on the Missouri coteau), rail.....	2,283
1,859.6	Secretan station.....	2,276.7
1,868.4	Chaplin station.....	2,208.0
1,873.5	Uren station.....	2,220.1
1,881.1	Ernfold station.....	2,368.9
1,883.9	Summit, rail.....	2,383
1,888.3	Morse station.....	2,283.2
1,896.5	Herbert station.....	2,319.8
1,901.6	Rush Lake, high water.....	2,298
1,904.7	Rush Lake station.....	2,336.6
1,909.7	Fauna station.....	2,404

ation
e mean
level

Miles from
Montreal

CANADIAN PACIFIC RAILWAY—MAIN LINE

Elevation
above mean
sea level

Montreal to Vancouver

959	1,914.1	Waldeck station.....	2,377.7
964	1,919.3	Aikins station.....	2,411.5
916	1,924.2	Swift Current brook, water, 2,425; rail.....	2,432
945	1,925.1	Swift Current, junction with Vanguard and Empress* branches..	2,432.0
989	1,931.1	Java, Empress Branch switch	2,459
955	1,933.8	Beverly station	2,475.9
904	1,939.1	Seward station	2,485.8
986	1,946.0	Webb station (summit).....	2,593.7
946	1,952.6	Antelope station.....	2,564.1
927	1,955.0	Premier station.....	2,539.7
904	1,960.3	Gull Lake station.....	2,567.9
932	1,964.5	Roscommon station	2,608.4
923	1,968.5	Carmichael station	2,648.8
963	1,975.0	Tompkins station	2,641.3
986	1,978.7	Leghorn station	2,571.4
988	1,982.0	Sidewood station.....	2,520
987	1,988.6	Crane Lake station.....	2,526.2
92	1,992.1	Piapot station	2,501.5
922	1,997.0	Cross station.....	2,541.8
978	2,001.9	Cardell station.....	2,573.4
96.4	2,006.3	Tannahill station.....	2,524.6
983.6	2,009.3	Maple Creek station.....	2,507.0
972	2,009.7	Maple creek, high water, 2,503; bed, 2,492; rail	2,508
92.6	2,015.9	Mackid station	2,544
968.0	2,022.4	Kincorth station	2,548
990	2,028.5	Hatton station.....	2,474
954	2,034.6	Cummings station.....	2,399
91.9	2,037.0	Box Elder creek, bed, 2,403; high water, 2,414; rail	2,421
925	2,040.2	Walsh station.....	2,448
915.1	2,040.9	McKay creek, high water, 2,436; bed, 2,425; rail.....	2,441
91.1	2,045.0	Larmour station.....	2,453
90.2	2,048.9	Summit, rail.....	2,525
958	2,050.7	Irvine station.....	2,503
982	2,053.7	Ross creek, high water, 2,458; bed, 2,448; rail.....	2,462
978.7	2,057.5	Pashley station.....	2,417
94	2,061.3	Larkhall station.....	2,406
978	2,065.0	Dunmore, junction with Crowsnest line.....	2,411
902	2,071.3	Seven Persons creek, high water, 2,166; bed, 2,151; rail	2,169
902.7	2,072.5	Medicine Hat station.....	2,181
950.4	2,072.8	South Saskatchewan river, low water, 2,144; high water, 2,172; rail	2,183
987.8	2,078.3	Redcliff station	2,439
976.1	2,081.1	Stair station.....	2,483
984	2,087.4	Bowell station	2,590
983	2,088.2	Summit.....	2,601
976.7	2,092.8	Dennis station.....	2,443
908.0	2,095.0	Depression, rail.....	2,392
920.1	2,098.0	Suffield, junction with Retlaw branch	2,463
968.9	2,102.3	Pamaga station.....	2,479
983	2,107.5	Carlstadt station (summit).....	2,503
983.2	2,111.0	Monogram	2,458
919.8	2,116.5	Kininvie	2,438
998	2,125.5	Tilley	2,456
936.6	2,131.3	Bantry	2,509
94	2,131.7	Summit, rail	2,515

*The Empress branch (p. 80) will, probably, be operated as the west-bound main line.

Miles from
Montreal

CANADIAN PACIFIC RAILWAY—MAIN LINE

Elevation
above mean
sea level*Montreal to Vancouver*

2,135.0	Macbeth station	2,482
2,139.0	Brooks "	2,487
2,145.5	Cassils "	2,523
2,153.2	Southesk "	2,509
2,157.7	Leckie "	2,530
2,162.4	Lathom "	2,566
2,170.1	Bassano, junction with Irricana and Empress branches	2,598
2,174.2	Hants station	2,693
2,178.3	Crowfoot station	2,708
2,180.9	Summit, rail	2,747
2,183.7	Towers station	2,634
2,188.8	Cluny station	2,852
2,193.3	Phidias station	2,893
2,197.5	Gleichen station	2,961
2,202.1	(Bartlow station	2,971
2,211.7	Strangmuir station	3,067
2,217.2	Carseland station	3,157
2,225.0	Dalemead station	3,297
2,231.4	Indus station	3,357
2,202.2	Stobart station	3,000
2,206.3	Ballina "	2,978
2,210.1	Namaka "	3,052
2,213.1	Eagle lake, high water	3,025
2,218.0	Strathmore station	3,190
2,224.7	Cheadle station	3,244
2,232.1	Langdon, junction with Acme branch	3,300
2,237.0	Bennett station	3,375
2,237.4	Summit, rail	3,381
2,242.6	Shepard station	3,377
2,247.9	Ogden "	3,389
2,248.8	Canadian Northern Ry., Saskatoon and Calgary branch, crossing, C.N. Ry., rail, 3,406; C.P. Ry., rail	3,380
2,249.4	Bow river, high water, 3,374; bed, 3,359; rail	3,385
2,250.3	Alyth, junction with Edmonton and Macleod branches	3,398
2,251.6	Elbow river, high water, 3,413; low water, 3,401; bed, 3,399; rail	3,422
2,252.8	Calgary station	3,437
2,257.3	Shaganappi station	3,484
2,260.5	Bow river, low water, 3,498; high water, 3,510; rail	3,517
2,262.2	Keith station	3,563
2,266	Bearspaw station	3,624
2,269.5	Impey station	3,659
2,270.9	Glenbow station	3,688
2,275.6	Cochrane station	3,750
2,277.5	Bow river, high water, 3,704; low water, 3,700; rail	3,725
2,280.6	Mitford station	3,739
2,285.9	Radnor station	3,896
2,290.4	Cheneka "	4,015
2,294.4	Morley "	4,078
2,300.2	Ozada "	4,164
2,304.6	Kananaskis river, water, 4,170; high water, 4,179; rail	4,213
2,305.2	Seebe station	4,217
2,305.9	Bow river, low water, 4,107; high water, 4,201; rail	4,212
2,306.9	Kananaskis station	4,130

Elevation
above mean
sea level

Miles from
Montreal

CANADIAN PACIFIC RAILWAY—MAIN LINE

Elevation
above mean
sea level

Montreal to Vancouver

2,482	2,310.0	Exshaw station.....	4,261
2,487	2,310.8	Lac des Arcs (Bow river), water.....	4,226
2,523	2,315.4	Gap station.....	4,248
2,509	2,316.1	Bow river, water.....	4,241
2,530	2,320.1	Canmore station.....	4,295
2,566	2,324.9	Duthil station.....	4,361
2,598	2,330.1	Anthracite station.....	4,495
2,693	2,331.3	Cascade river, high water, 4,540; rail.....	4,546
2,708	2,332.3	Summit, rail.....	4,584
2,747	2,332.3	Bankhead station.....	4,581
2,634	2,334.7	Banff station.....	4,534
2,852	2,334.9	Forty-mile brook, high water, 4,521; rail.....	4,528
2,893	2,340.8	Sawback station.....	4,543
2,961	2,341.5	Muleshoe lake, low water.....	4,535
2,971	2,346.5	Massive station.....	4,585
2,067	2,349.9	Johnson brook, high water, 4,643; low water, 4,640; rail.....	4,646
2,157	2,351.5	Castle station.....	4,668
2,297	2,359.3	Eldon station.....	4,822
2,357	2,361.2	Baker brook, bed, 4,862; rail.....	4,870
	2,363.3	Temple station.....	4,918
2,000	2,368.9	Brook, water, 4,960; rail.....	4,963
2,978	2,369.0	Pipestone creek, bed, 5,029; rail.....	5,040
2,052	2,369.4	Laggan station, Alberta.....	5,044
2,025	2,370.4	Bow river, low water, 5,056; rail.....	5,064
2,190	2,370.6	Bath creek, low water, 5,068; rail.....	5,075
2,244	2,373.9	Bath creek, bed, 5,272; low water, 5,273; rail.....	5,278
2,300	2,374.8	Summit of Kicking Horse pass, main divide, Rocky mountains (highest point on the Canadian Pacific railway), boundary between British Columbia and Alberta.....	5,332
2,375	2,375.2	Summit lake, water.....	5,321
2,377	2,375.3	Stephen station, B.C.....	5,326
2,389	2,377.7	Hector ".....	5,213
	2,377.7	Cataract creek, bed, 5,205; water, 5,206; rail.....	5,213
2,380	2,378.1	Kicking Horse lake, water.....	5,203
2,385	2,378.2	Kicking Horse river, bed, 5,195; water, 5,197; rail.....	5,204
2,398	2,378.6	Kicking Horse river, bed, 5,166; water, 5,167; rail.....	5,173
2,422	2,381.6	Upper portal, Cathedral Mountain spiral tunnel.....	4,848
2,437	2,382.2	Lower portal, Cathedral Mountain spiral tunnel.....	4,794
2,484	2,382.9	Yoho station.....	4,719
2,517	2,383.4	Kicking Horse river, water, 4,635; rail.....	4,670
2,563	2,383.9	Upper portal, Wapta Mountain spiral tunnel.....	4,624
2,624	2,384.4	Lower portal, Wapta Mountain spiral tunnel.....	4,572
2,659	2,384.5	Kicking Horse river, water 4,501; rail.....	4,560
2,688	2,385.1	Cathedral station.....	4,495
2,750	2,386.6	Mount Stephen tunnel, rail.....	4,341
2,725	2,389.3	Field station.....	4,072
2,739	2,393.5	Emerald station.....	3,900
2,896	2,397.5	Ottertail station.....	3,702
2,015	2,398.6	Kicking Horse river, bed, 3,640; rail.....	3,662
2,078	2,401.9	Wapta station.....	3,655
2,164	2,406.3	Summit, rail.....	3,688
2,213	2,406.4	Leancoil station.....	3,682
2,217	2,412.1	Palliser station.....	3,288
2,212	2,414.0	Kicking Horse river, bed, 3,081; rail.....	3,126
2,130	2,417.3	Glenogle station.....	3,008

Miles from Montreal	CANADIAN PACIFIC RAILWAY—MAIN LINE	Elevation above mean sea level
<i>Montreal to Vancouver</i>		
2,421.5	Cloister station.....	2,682
2,424.6	Columbia river, at mouth of Kicking Horse river, water.....	2,568
2,424.6	Golden, junction with Kootenay Central branch.....	2,583
2,426.2	Bay of Columbia river, water, 2,561; rail.....	2,568
2,431.0	Moberly station.....	2,553
2,437.1	Forde station.....	2,563
2,439.9	Donald station.....	2,579
2,440.7	Columbia river, 1st crossing, high water, 2,524; low water, 2,513; bed, 2,501; rail.....	2,560
2,444.9	Old-man creek, bed, 2,514; rail.....	2,585
2,446.2	Redgrave station.....	2,534
2,452.5	Beavermouth station.....	2,433
2,457.3	Six-mile Creek station.....	2,597
2,459.9	Griffith station.....	2,843
2,463.0	Cedar station.....	3,169
2,464.3	Cutbank station.....	3,318
2,467.3	Bear Creek station.....	3,664
2,469.6	Hermit station.....	3,896
2,470.3	Cascade creek, bed, 3,850; rail.....	3,895
2,473.4	Rogers Pass station.....	4,246
2,474.3	Summit of Rogers pass, Selkirk mountains, rail.....	4,340*
2,476.6	Glacier station.....	4,094
2,479.5	Camden station.....	3,766
2,483.5	Ross Peak station.....	3,434
2,484.4	Illicilliwaet river, bed, 3,097; rail.....	3,106
2,487.2	Flat Creek station.....	3,090
2,491.7	Illicilliwaet river, bed, 2,723; rail.....	2,759
2,492.1	Illicilliwaet station.....	2,711
2,495.3	Illicilliwaet river, bed, 2,423; rail.....	2,482
2,496.0	Downie station.....	2,475
2,498.7	Albert Cañon station.....	2,224
2,503.9	Lauretta station.....	1,957
2,508.9	Twin Butte station.....	1,877
2,513.5	Greeley station.....	1,667
2,519.6	Revelstoke, junction with Arrow Lake branch.....	1,494
2,520.9	Columbia river, extreme high water, 1,441; low water 1,423; bed 1,415; rail.....	1,472
2,522.1	Big-eddy station.....	1,517
2,525.2	Boulder station.....	1,674
2,527.9	Summit of Eagle pass, Gold range, ground, 1,831; rail.....	1,823
2,528.5	Clanwilliam station.....	1,820
2,528.5	Summit lake, high water, 1,807; low water.....	1,804
2,534.3	Three Valley lake, water.....	1,631
2,534.5	Three Valley station.....	1,636
2,535.2	Eagle river, water, 1,614; bed 1,610; rail.....	1,622
2,540.8	Mitikan station.....	1,387
2,544.1	Taft station.....	1,279
2,548.2	Craigellachie station.....	1,225
2,551.3	Eagle river, bed, 1,174; rail.....	1,195

*When the new line and tunnel are completed, the summit level will be lowered 530 feet to elevation 3,801 feet above mean tide. The new line will reduce the distance by 5 miles and the length of maximum grades from 22.15 miles to 6.61. The tunnel will be 26,400 feet (5 miles) long.

CANADIAN PACIFIC RAILWAY

17

vation
e mean
level

Miles from
Montreal

CANADIAN PACIFIC RAILWAY—MAIN LINE

Elevation
above mean
sea level

Montreal to Vancouver

682	2,552.5	Malakwa station.....	1,215
568	2,556.3	Bowie station.....	1,178
583	2,557.1	Eagle river, bed, 1,149; rail.....	1,172
568	2,560.8	Solsqua station.....	1,160
553	2,564.7	Sicamous, junction with Okanagan branch.....	1,153
563	2,564.7	Shuswap lake, high water, 1,149; low water.....	1,133
579	2,569.4	Annis station.....	1,159
	2,572.3	Mowitch station.....	1,155
560	2,577.0	Canoe station.....	1,151
585	2,583.4	Salmon Arm station.....	1,157
534	2,590.6	Tappen station.....	1,158
433	2,594.9	Carlin station.....	1,422
597	2,599.7	Notch Hill station (Shuswap summit).....	1,691
843	2,603.6	Elson station.....	1,484
169	2,607.4	Squilax station.....	1,288
318	2,608.4	Trail creek, bed, 1,217; rail.....	1,270
664	2,611.5	Stormont station.....	1,147
896	2,613.5	Chase creek, bed, 1,172; rail.....	1,177
895	2,613.6	Chase station.....	1,183
246	2,615.5	Shuswap station.....	1,153
340*	2,622.1	Watmore station.....	1,170
094	2,624.4	Pritchard ".....	1,151
766	2,631.5	Ducks ".....	1,154
434	2,638.8	Furrer ".....	1,142
106	2,645.1	Tryst ".....	1,142
090	2,648.7	Kamloops station.....	1,159
759	2,652.2	Benledi station (closed).....	1,143
711	2,654.4	Kamloops lake, high water, 1,137; low water.....	1,109
482	2,656.7	Tranquille station.....	1,142
475	2,663.3	Cherry Creek station.....	1,141
224	2,674.0	Savona station.....	1,163
957	2,679.0	Summit, rail.....	1,388
877	2,680.8	Walhachin station.....	1,259
667	2,687.3	Semlin station.....	1,148
494	2,690.2	Thompson river, high water, 998; low water.....	992
	2,694.6	Thompson river, at mouth of Bonaparte river, high water, 966; low water.....	959
472	2,695.9	Ashcroft station.....	1,004
517	2,701.0	Thompson river, Black cañon, high water, 899; low water, 879; rail.....	951
674	2,702.8	Nelson creek, bed, 914; rail.....	936
823	2,703.4	Basque station.....	892
820	2,708.8	Thompson river, high water, 865; low water.....	856
804	2,709.5	Spatsum station.....	860
631	2,715.1	Thompson river, Junction flat, low water, (1882, 759; high water, 795; rail.....	808
636	2,715.9	Toketic station.....	804
622	2,719.7	Nicola river, high water, (1882) 743; low water, 716; rail.....	755
387	2,721.3	Spence Bridge, junction with Nicola branch.....	774
279	2,727.8	Drynoch station.....	755
225	2,732.3	Nicoamen river, high water (June, 1894) 634; low water, 593; rail.....	675
195	2,734.0	Thompson station.....	673
	2,735.7	Thompson river, high water, (1882) 593; low water, (1882) 553; rail.....	704
	2,738.4	Gladwin station.....	758

539 feet
B. and
400 feet

Miles from
Montreal

CANADIAN PACIFIC RAILWAY—MAIN LINE

Elevation
above mean
sea level*Montreal to Vancouver*

2,740.4	Summit, ground, 814; rail.	785
2,743.5	Lytton station.	693
2,749.7	Fraser river, high water (1894), 474; low water (1876), 415; water, Feb. 1912, 395; rail.	539
2,752.4	Kanaka station.	613
2,752.4	Quoeek creek, water, 496; rail.	590
2,754.0	Skowash creek, water, 461; rail.	551
2,759.4	Keefer station.	561
2,762.6	Salmon river, low water (1896), 361; high water (backwater of Fraser river), 405; rail.	482
2,765.2	Chaumox station.	568
2,767.5	Summit, ground, 542; rail.	532
2,770.1	North Bend station.	493
2,774.3	Fraser river, high water.	362
2,775.5	Skuzzy river, bed, 379; rail.	472
2,776.1	China Bar station.	459
2,777.8	Cathmar station.	402
2,779.8	Fraser river, high water (1894), 328; low water.	301
2,783.9	Alexandra bluff, rail.	345
2,785.6	Spuzzum station.	366
2,786.6	Spuzzum river, high water, 245; low water, 240; rail.	371
2,789.1	Fraser river, Sailor bar, high water (1882).	254
2,790.3	Saddle Rock station.	296
2,796.7	Fraser river, mouth of Yale creek, high water, 177; low water.	161
2,797.2	Yale station.	220
2,803.6	Fraser river, high water, 140; ordinary water.	134
2,804.1	Choate station.	210
2,809.1	Fraser river, high water, 126; ordinary water.	118
2,810.2	Hope station.	214
2,812.7	Fraser river (opposite Huascar bluffs), high water, 99; ordinary water.	96
2,814.8	Katz station.	110
2,818.1	Ruby Creek station.	101
2,818.1	Fraser river, high water.	98
2,823.5	Waleach station.	82
2,827.0	Fraser river, Maria slough, high water, 68; ordinary water.	51
2,828.9	Agassiz station.	59
2,832.9	Fraser river, high water, 44; ordinary water.	29
2,832.9	Marconi station (closed).	50
2,837.2	Cheam station (closed).	47
2,837.3	Harrison river, high water, 40; low water, 20; rail.	48
2,838.1	Harrison Mills station.	47
	Harrison lake, high water, 40; low water.	28
2,841.0	Squaakim lake, water.	50
2,845.7	Nicomen slough, high water (1894).	35
2,846.7	Nicomen station.	30
2,851.5	Dewdney station.	29
2,851.9	Hatzic river, high water, 28; low water, 3; rail.	32
2,854.5	Hatzic station.	32
2,857.4	Mission, junction with Mission branch.	26
2,859.1	Fraser river, high water, 26; rail.	35
2,861.9	Silverdale station.	26
2,863.6	Stave river, high water, 26; rail.	31
2,863.7	Ruskin station.	31
2,866.3	Whonnock station.	23

CANADIAN PACIFIC RAILWAY

19

Elevation
above mean
sea levelMiles from
Montreal

CANADIAN PACIFIC RAILWAY—MAIN LINE

Elevation
above mean
sea level*Montreal to Vancouver*

785	2,872.8	Haney station.	26
693	2,875.1	Hammond station.	28
	2,877.8	Pitt Meadows station.	20
539	2,881.3	Coquitlam station.	39
613	2,882.5	Westminster junction, with Westminster branch.	38
590	2,884.0	Summit, ground, 111; rail.	96
551	2,886.6	Port Moody station.	14
561	2,890.1	Barnett station.	25
	2,895.4	Hastings station.	33
482	2,898.1	Heatley Avenue station.	16
568	2,899.2	Vancouver station.	14

Miles from
Windsor Junc.

DOMINION ATLANTIC RAILWAY—MAIN LINE

472	0.0	Windsor Junction, with Intercolonial railway, 13.91 miles from Halifax.	128.4
459	2.9	Beaver Bank station.	234
402	4.9	Fenerty siding.	272
301	7.5	Grove "	451
345	8.8	Summit	463
300	9.8	South Uniacke siding.	457
371	10.9	Hay and Hibbert siding.	498
254	11.4	Sackville river, water, 422; rail.	462
296	12.8	Summit	524
161	12.9	Mount Uniacke station.	520
220		Tucker siding.	462
134	19.5	Stillwater siding.	441
210	22.9	Ellershouse station.	246
118	24.2	Hartville siding.	184
214	24.7	Ste. Croix river, water, 130; rail.	175
96	25.9	Newport station.	109
110	28.8	Three-mile Plains siding.	80
101	30.3	Wilkins and Ballast-pit siding.	41
98	31.6	Windsor, junction with Truro branch.	28
82	33.0	Falmouth station.	33
51	38.6	Hantsport station.	53
59	43.1	Avonport station.	39
29	45.5	Horton Landing station.	40
50	46.7	Grand Pré "	31
47	49.7	Wolfville "	31
48	51.5	Port Williams "	33
47	56.7	Kentville, junction with Cornwallis Valley branch.	35
28	61.1	Coldbrook station.	70
50	63.7	Cambridge "	67
35	65.9	Waterville "	94
30	68.8	Berwick station (summit).	144
29	74.1	Aylesford station.	100
32	75.7	Auburn "	94
32	82.2	Kingston "	86
26	83.7	Wilmot "	70
35	87.4	Middleton, junction with Canadian Northern (Halifax and South- western Ry.), Middleton and Port Wade branch.	70
26	93.7	Lawrencetown station.	82
31	96.5	Paradise "	57
31	101.3	Bridgetown "	27

Miles from
Windsor Junc.

DOMINION ATLANTIC RAILWAY—MAIN LINE

Elevation
above mean
sea level

109.0	Roundhill station	40
115.2	Annapolis "	30
116.0	Allen river (tidewater), rail.	29
122.9	Clementsport station	79
125.6	Deep brook (tidewater), rail.	52
129.1	Bear River station	42
132.5	Smith Cove "	90
135.6	Digby "	43
139.8	Jordantown "	180
143.8	Bloomfield "	323
144.3	Summit	340
146.0	North Range station	312
149.0	Plympton "	282
151.0	Sissiboo Falls "	287
156.8	Weymouth "	60
161.4	Belliveau "	158
165.6	Church Point "	154
166.8	Little Brook "	145
169.4	Saulnierville "	123
172.6	Meteghan "	131
181.8	Hectanooga "	170
184.8	Lake Annis "	172
189.1	Brazil Lake "	214
193.1	Pitman Road "	234
195.4	Ohio "	160
197.8	Hebron "	85
201.5	Yarmouth station	25

DOMINION ATLANTIC RAILWAY—CORNWALLIS
VALLEY BRANCHMiles from
Kentville

0.0	Kentville, junction with main line, 56.7 miles from Halifax	35
2.9	Mill Village station	39
4.8	Centreville "	92
7.3	Sheffield Mills "	95
9.3	Hillaton "	32
10.8	Canning "	72
13.8	Kingsport "	52

DOMINION ATLANTIC RAILWAY—NORTH
MOUNTAIN BRANCH (*Under Construction*)Miles from
Centreville

0.0	Centreville, junction with Cornwallis Valley branch	122
2.7	Billtown station	109
5.1	Lakeville "	145
7.0	Woodville "	170
9.3	Grafton "	143
12.1	Somerset "	185
14.8	Weston "	

Miles from
Truro

DOMINION ATLANTIC RAILWAY—TRURO BRANCH

0.0	Truro, junction with Intercolonial railway, 61.83 miles from Halifax	59.7
4.6	McNutt brook, bed, 23; rail.	41
6.7	Clifton station	39
12.1	Princeport Road static	216
12.5	Summit, ground, 239; rail.	237

CANADIAN PACIFIC RAILWAY

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Elevation
above mean
sea levelMiles from
Truro

DOMINION ATLANTIC RAILWAY—TRURO BRANCH

Elevation
above mean
sea level

40	15.6	Green Oaks station.....	72
30	16.8	Shubenacadie river, extreme high water, 36; low water, 10; rail..	51
29	17.4	South Maitland station.....	37
79	22.0	Five-mile river, bed, 112; rail.....	130
52	22.6	Burton station.....	147
42	24.2	Summit, ground, 179; rail.....	176
90	25.9	Doddridge station.....	145
43	29.6	Kennetcook river, bed, 98; rail.....	113
180	31.2	Kennetcook station.....	103
323	37.4	Kennetcook river, bed, 72; rail.....	87
340	38.9	Clarksville station.....	75
312	39.9	Lacy brook, bed, 64; rail.....	71
287	42.9	Stanley station.....	48
60	44.8	Little river, bed, 27; rail.....	41
158	45.6	Mosherville station.....	42
154	47.7	Scotch Village station.....	139
145	48.7	Summit, ground, 165; rail.....	143
123	51.4	Brooklyn station.....	38
131	54.1	Ste. Croix river, bed, 9; rail.....	39
170	54.2	Ste. Croix station.....	39
172	55.4	Dimock station.....	33
214	57.5	Windsor, junction with Dominion Atlantic Ry., main line, 31.6 miles from Windsor Junction.....	28

CANADIAN PACIFIC RAILWAY—"SHORT LINE"

Miles from
St. John

St. John to Montreal

35	0.0	St. John, Intercolonial Railway station.....	21.4
39	2.0	St. John River bridge (tidewater), rail.....	88
92	2.3	Fairville station.....	100
95	4.0	Bay Shore, junction with Shore Line.....	81
32	6.3	West St. John station.....	15
72	4.6	South Bay station.....	34
52	5.2	Aurora station.....	37
	6.0	Acamac ".....	41
	6.9	Ketepec ".....	73
	7.7	Summit, rail.....	115
	8.9	Martinon station.....	71
	9.9	Grand Bay ".....	60
122	10.7	Pamdenec station.....	89
109	11.6	Ingleside ".....	71
145	12.3	Ononette ".....	45
170	13.1	Hillandale ".....	26
143	13.2	Westfield Beach station.....	21
185	14.4	Pamomkeag station.....	21
	14.9	Lingley ".....	28
	16.2	Sagwa ".....	20
	18.1	Nerepis ".....	21
	19.8	Blagdon ".....	42
59.7	21.3	Eagle Rock ".....	68
41	22.5	Bayard ".....	59
39	23.8	Welsford ".....	79
216	28.2	Clarendon station (summit).....	184
237	31.7	Gaspereaux ".....	139

Miles from St. John	CANADIAN PACIFIC RAILWAY—"SHORT LINE"	Elevation above mean sea level
<i>St. John to Montreal</i>		
34.1	Enniskillen station	111
36.9	Hoyt "	59
38.1	Image brook, bed, 34; n	40
40.1	South Branch station	31
41.0	Oromocto river, high water, 2; rail	23
41.6	Bailey station	23
44.2	N. W. branch Oromocto river, 31; low water, 23; rail	56
44.4	Fredericton junction, with N. B. branch	60
47.7	Tracey station	85
51.7	Vespra "	171
55.0	Rooth "	323
58.7	Summit	440
59.6	Cork station	421
65.0	Harvey "	490
67.1	Summit	513
70.9	Prince William station	461
73.5	Magaguadavic river, high water, 365; rail	405
75.2	Magaguadavic station	392
78.6	Newcomb station	401
83.8	McAdam, junction with St. Stephen and Edmundston branches	458.6
84.9	Summit	522
86.6	Burpee station	486
89.8	Ste. Croix station, N.B.	390
90.0	Ste. Croix river, (International boundary), high water, 372; rail	390
90.1	Vanceboro station, Me.	409
95.1	Lambert Lake station	433
97.2	Todd Farm station	513
102.3	Tonah station	387
106.6	Forest "	449
111.2	Eaton station	413
116.2	Danforth station	392
121.6	Cherokee siding	428
125.5	Bancroft station	346
128.7	Wytopitlock station	360
131.5	Meadow Brook station	346
137.9	Kingman station	337
146.1	Mattawankeag station	223
146.4	Penobscot river, high water, 199; low water, 190; bed, 178; rail	218
150.3	Craigvale station	232
153.7	Chester station	225
159.6	Woodard station	256
163.5	Gilford station	225
167.1	Seebois station	202
173.7	Hardy Pond station	394
178.4	Schoodic lake, high water, 332; rail	444
179.3	Lakeview station	448
183.9	Knight station	517
184.8	Summit, ground, 547; rail	531
188.9	Brownville, junction with Maine Central railroad	390
189.4	Bangor and Aroostook R.R. crossing	396
193.0	Williamsburg station	586
197.5	Barnard "	743
200.7	Kuroki station	715
202.2	Benson "	740
203.4	Summit	780

CANADIAN PACIFIC RAILWAY

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Elevation
above mean
sea levelMiles from
St. John

CANADIAN PACIFIC RAILWAY—"SHORT LINE"

Elevation
above mean
sea level*St. John to Montreal*

111	206.1	Ship Pond viaduct, high water, 535; low water, 528; rail	645
59	206.7	Onawa station	637
40	210.2	Bodfish station	778
31	215.9	Elliot station (closed)	1,011
23	216.4	Morkill station	1,003
23	220.1	Summit	1,123
56	222.3	Greenville junction	1,057
60	227.0	Squaw Brook station	1,036
85		Moosehead lake, high water, 1,034; low water	1,029
171	233.0	Moosehead station	1,035
323	233.1	Kennebec river (east outlet Moosehead lake), high water, 1,024; low water, 1,019; bed, 1,016; rail	1,036
440	237.8	Somerset junction	1,038
421	240.6	Tarratine station	1,109
490	240.7	Misery brook, high water, 1,095; low water, 1,090; rail	1,109
513	244.5	Brassua station	1,113
461	249.2	Mackamp station	1,172
405	255.1	Long Pond station	1,191
392	259.6	Blair station	1,171
401	262.5	Jackman station (summit)	1,222
458.6	264.5	Moose river, bed, 1,152; rail	1,175
522	267.5	Attean station	1,199
486	273.5	Boston Ranch station	1,245
390	275.2	Holeb station	1,252
390	281.2	Franklin station	1,328
409	283.9	Skinner station	1,425
433	286.5	Lowellton station, Me.	1,593
513	290.6	Boundary station (International boundary)	1,850.1
387	290.7	Summit, rail	1,854
449	293.0	Keen station, Que. (closed)	1,733
413	295.9	Trudel station	1,600
392	299.8	Ditchfield station	1,472.4
428	302.0	Summit, rail	1,486
346	306.6	Megantic station	1,310.3
360	306.9	Chaudière river, bed, 1,295; rail	1,313
346	311.0	Glen River station	1,556
337	315.0	Spring Hill station	1,691.1
223	316.9	Summit, rail	1,702
218	318.9	Depression, rail	1,600
232	321.4	Milan station (summit)	1,645.8
225	325.2	McLeod station	1,474.5
256	326.2	Spruce station	1,452
225	329.7	Brook, bed, 1,228; rail	1,239
202	331.6	Scotstown station	1,194.9
394	333.6	Brook, bed, 1,049; rail	1,068
444	336.8	Gould station (summit)	1,302.2
448	338.5	Crawford brook, bed, 1,203; rail	1,213
517	340.3	Long Swamp station	1,266
531	340.3	Summit, rail	1,267
390	344.8	Bury station	1,063.3
396	349.0	Ross station	906
586	353.0	Maine Central P. R. crossing	681.1
743	353.9	Cookshire station	685.0
715	358.6	Birchton station	973.9
740	360.0	Summit, rail	1,006
780			

Miles from
St. John

CANADIAN PACIFIC RAILWAY—"SHORT LINE"

Elevation
above mean
sea level*St. John to Montreal*

361.3	Bulwer station.....	939.6
364.8	Johnville station.....	854.6
367.0	Bowen brook, bed, 717; rail.....	749
367.3	Racey station.....	748
371.5	Massawippi river, bed, 477; rail.....	494
372.0	Lennoxville station.....	495
372.2	Grand Trunk Ry., Eastern division, crossing.....	498
375.1	Sherbrooke station.....	592
376.7	Magog river, water (July 20, 1893), 585; high water, 586; low water, 583; bed, 569; rail.....	597
379.5	Brook, bed, 617; rail.....	648
381.7	Rock Forest station.....	700.5
382.8	Summit, ground, 712; rail.....	707
384.0	Lake Park station.....	647.7
384.2	Little Magog lake, water, 634; rail.....	649
384.6	Scaswan station.....	645
387.1	Shanks station.....	668
390.5	Summit, ground, 697; rail.....	691
	Lake Memphremagog, water (July 3, 1893).....	682
392.5	Magog river, water (July 3, 1893), 682; rail.....	692
393.4	Magog station.....	688.7
393.9	Cherry river, water, 682; rail.....	689
395.5	Castle brook, water, 761; rail.....	814
397.9	Milletta station.....	893
399.1	Delaire station.....	922
400.4	Summit, ground, 961; rail.....	940
	Orford lake, water, (June 20, 1893), 922; high water, 923; low water.....	917
401.5	Orford Branch crossing, Orford branch, rail, 823; "Short Line," rail.....	868
402.8	Missisquoi river, water, 811; bed, 801; rail.....	867
403.9	Orford Branch switch.....	909
403.9	Eastman junction, with Orford branch.....	910.2
405.4	Summit, rail.....	937
407.0	Stukely brook, high water, 786; low water, 783; rail.....	844
407.5	South Stukely station.....	837.0
410.1	Brook, water, 705; rail.....	733
412.2	Foster, junction with Drummondville branch.....	696.4
413.0	Brook, bed, 658; rail.....	680
415.7	Fulford station.....	584.3
418.7	Brook, bed, 438; rail.....	461
419.7	North branch Yamaska river, water, 402; bed, 398; rail.....	435
420.9	West Shefford station.....	428.0
425.7	Beaver Meadow brook, bed, 315; rail.....	330
428.2	Adamsville station.....	376.0
428.4	Summit, ground, 386; rail.....	377
432.1	Brigham junction, with Newport branch.....	267.7
438.4	Farnham, junction with St. Guillaume and Stanbridge branches.....	191
438.6	Central Vermont R. R. crossing.....	185.5
441.9	Riv. Sud-ouest, bed, 157; rail.....	172
442.7	Ste. Brigitte station.....	164
445.0	Versailles station.....	136.5
445.6	Summit.....	196
447.5	St. Grégoire station.....	174
450.9	Iberville junction, with Quebec, Montreal & Southern Ry.....	114.9

CANADIAN PACIFIC RAILWAY

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Elevation
above mean
sea levelMiles from
St. John

CANADIAN PACIFIC RAILWAY—"SHORT LINE"

Elevation
above mean
sea level

	451.6	Iberville station.....	109.3
939.6	451.8	Richelieu river, low water, 92.5; extreme high water (1865), 99.5; mean water (1863-70) 95.0; rail.....	113.1
854.6	452.1	St. John's station.....	117
749	453.3	Grand Trunk Ry., Rouses Point branch, crossing.....	114.0
748	454.8	Summit.....	150
494	456.6	L'Acadie station.....	127.9
495	457.3	Little Montreal river, bed, 97; rail.....	125.5
498	460.4	Summit.....	134
592	460.7	St. Claude station (closed).....	133
597	462.9	St. Lambert river, bed, 91; rail.....	114.2
648	463.3	St. Phillippe station.....	116.4
700.5	467.0	Delson, junction with Napierville Junction Ry. (Q. M. & S. Ry.) and Grand Trunk, Massena Springs branch, crossing.....	91.7
707	467.6	St. Régis river, bed, 83; rail.....	96.3
647.7	468.1	St. Constant station.....	95.4
649	470.7	Summit.....	104
645	472.8	Adirondack, junction with New York Central R.R.....	96.4
668	474.0	River St. Lawrence, high water, 70.1; low water, 63.0; top of rail, main span.....	129.2
691	474.6	Highlands station.....	115.9
682	475.4	Lachine canal, water, 65.8; rail.....	108.1
692	476.9	Montreal junction.....	157
688.7	480.1	Westmount station.....	152
689	481.8	Montreal, Windsor station.....	110

CENTRAL RAILWAY OF NEW BRUNSWICK

Miles from
Norton

917	0.0	Norton, junction with Intercolonial Ry., St. John branch, 56.50 miles from Moncton.....	51.2
868	0.2	Kennebecasis river, low water, 10; bed, 5; rail.....	29.5
867	4.4	Case Settlement station (summit), ground, 254; rail.....	35
909	6.6	Belleisle creek, high water, 120; bed, 110; rail.....	143
910.2	7.4	Belleisle station.....	201.5
937	9.0	Sargisson brook, bed, 270; rail.....	318.8
844	12.6	Summit ground, 531; rail.....	526.8
837.0	14.0	Annandale station.....	505
733	17.0	Salmon brook, bed, 184; rail.....	219
696.4	19.9	Cody brook, bed, 40; rail.....	50
680	20.0	Washademoak station.....	78
584.3	20.6	Washademoak lake, high water, 11; low water, 0; rail.....	17
461	25.4	Young Cove station.....	198
435	26.3	Summit, ground, 226; rail.....	224
428.0	27.9	Young Cove brook, bed, 122; rail.....	128
330	30.2	Wasson brook, bed, 2; rail.....	39
376.0	33.4	Cumberland creek, rail.....	28
377	33.8	Cumberland station.....	37
267.7	35.7	Summit, ground and rail.....	164
191	37.2	Coal Creek station (closed).....	64
185.5	38.3	Coal creek, high water, 9; water, 2; rail.....	22
172	39.0	Pennlyn station.....	45
164	42.2	Summit, ground and rail.....	178
186.5	44.5	Chipman station.....	38
196	44.7	St. John river, high water, 8; water, 2; rail.....	23
174	46.0	N. Calum brook, bed, 33; rail.....	44
114.9			

CENTRAL RAILWAY OF NEW BRUNSWICK		Elevation above mean sea level
Miles from Norton		
47.0	Summit, rail.....	76
49.1	Ironbound cove, bed, 5; rail.....	31
52.6	Summit, ground and rail.....	179
56.6	Newcastle brook, water, 28; rail.....	57
56.8	Newcastle station.....	60
58.3	O'Leary brook, bed, 137; rail.....	139
59.5	End of profile.....	165

CANADIAN PACIFIC RAILWAY—FREDERICTON BRANCH		
Miles from Fredericton Junction		
0.0	Fredericton Junction, with "Short Line", St. John to Montreal, 44.4 miles from St. John.....	60
2.8	Three-tree brook, rail.....	24
3.0	Three-tree Creek station.....	35
8.2	Rusiagornis station.....	32
12.1	Waasis station.....	46
16.8	Glasier station.....	58
18.6	Summit.....	118
18.8	Doak station.....	117
20.0	Victoria station.....	74
20.7	Morrison station.....	49
21.2	Salamanca station.....	33
22.2	Fredericton, junction with Gibson branch.....	32

CANADIAN PACIFIC RAILWAY—ST. ANDREWS BRANCH		
Miles from St. Andrews		
0.0	St. Andrews station.....	23
2.2	Bar Road.. ".....	33
4.9	Chamcook ".....	94
6.9	Dougherty ".....	147
10.4	Bartlett ".....	123
12.7	Waweig ".....	212
14.6	Roix Road ".....	152
17.0	Brunswick, junction with Shore Line.....	279.6
18.8	Hewitt station (summit).....	305
21.2	Rolling Dam station.....	240
24.2	Dumbarton station.....	230
27.5	Watt, junction with St. Stephen branch.....	312.3

CANADIAN PACIFIC RAILWAY—ST. STEPHEN BRANCH		
Miles from St. Stephen		
0.0	St. Stephen station.....	15.1
1.0	Shore Line junction.....	46
1.1	Milltown junction, with Milltown branch.....	55
5.3	Maxwell station.....	207
8.7	Moore Mills station.....	297
10.9	Gilman ".....	338
14.7	Honeydale station.....	260
19.1	Watt, junction with St. Andrews branch.....	312.3
20.1	Lawrence station.....	337
25.6	Barber Dam station.....	422

CANADIAN PACIFIC RAILWAY

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Miles from St. Stephen	CANADIAN PACIFIC RAILWAY—ST. STEPHEN BRANCH		Elevation above mean sea level
27.0	Digdeguash river, water, 395; bed, 383; rail.....		401
33.0	Summit, rail.....		473
33.9	McAdam, junction with "Short Line," St. John to Montreal, 83.8 miles from St. John.....		458.6
Miles from Milltown Junction	CANADIAN PACIFIC RAILWAY—MILLTOWN BRANCH		
0.0	Milltown Junction, with St. Stephen branch, 1.2 miles from St. Stephen.....		55
2.00	Summit.....		148
4.64	Milltown, junction with St. Croix and Penobscot R. R.....		55
	St. Croix river at bridge, water.....		47
Miles from St. Stephen	CANADIAN PACIFIC RAILWAY—SHORE LINE		
0.00	St. Stephen station.....		15.1
0.95	Shore Line, junction with St. Stephen branch.....		46
5.72	Oak Bay station.....		72.5
10.52	Ripley station.....		158
14.76	Brunswick, junction with St. Andrews branch.....		279.6
17.02	Cassells station.....		274
21.02	Dyer station.....		104.1
29.75	Bonny River station.....		72.4
31.39	Bonny River wye.....		71
33.40	Magaguadavic river, rail.....		64
35.52	St. George station.....		89.4
38.23	Utopia station.....		112.0
42.40	Summit.....		277
44.95	Pennfield station.....		226.5
50.74	Popologan station.....		203.8
53.62	New River station.....		172.5
54.60	Elbe station.....		188
58.80	Lepraux station.....		78.2
66.41	Musquash station.....		16.6
69.89	Prince of Wales station.....		118.2
71.77	Taylor station.....		180
73.30	Ludgate Lake station.....		202
74.94	Allan Cot station.....		208.0
75.66	Spruce Lake station.....		205.6
80.52	Duck Cove station.....		68.6
81.60	Bay Shore, junction with "Short Line", 4.0 miles from St. John ..		81
Miles from McAdam	CANADIAN PACIFIC RAILWAY—EDMUNDSTON BRANCH		
0.0	McAdam, junction with "Short Line," 83.8 miles from St. John ..		459
2.4	Maudslay station.....		419
5.1	Summit, rail.....		488
6.7	Cottrell station.....		483
10.1	Sugar Brook station.....		475
14.8	Summit.....		558
16.3	Deer Lake station.....		538
18.1	Shogomoc ..		531
22.5	Canterbury ..		563.1
22.6	Summit.....		577
23.7	Grant station.....		553

Miles from McAdam	CANADIAN PACIFIC RAILWAY—EDMUNDSTON BRANCH	Elevation above mean sea level
27.1	Scott station	468
32.1	Murchie "	399
33.1	Benton "	415.6
33.1	Eel river, bed, 399; rail	415
36.6	Oak station	540
38.6	Wickham station (summit)	609
40.0	Debec, junction with Houlton branch	551.3
44.9	Teeds Mill station	401
46.8	Dibblee "	306
51.1	Woodstock station	148.3
51.4	Meduxnekeag river, bed, 108; rail	145
53.5	Upper Woodstock station	158.7
53.6	St. John river, low water, 101; rail	152
54.9	Phillips station	137
55.3	Newburg, junction with Gibson branch	144
60.5	Nixon station	167
62.4	Deep Creek station	149
64.1	Hartland "	169.1
66.7	Hale "	200
68.3	Peel "	183
70.2	Stickney station	172
74.9	Florenceville station	191.5
77.9	Bristol station	206.1
81.1	Bath station	218.0
81.5	Manquast river, bed, 175; rail	203
85.1	Beechwood station	235
88.1	Upper Kent station	281
89.9	Rivière des Chute station	281
91.9	Muniac station	242
93.0	Kilburn station	286.0
96.8	Inman station	247
100.2	Perth, junction with Tobique branch	257.8
100.4	St. John river, high water, 256; rail	265
101.5	Andover station	268.6
105.7	Aroostook, junction with Aroostook branch	276.0
112.3	Dee station	399
114.6	Limestone station	327
117.4	Ortonville "	368
119.6	Argosy "	337
123.6	Summit	517
124.4	Grand Falls station	504.8
124.8	St. John river, low water, 422; rail	473
130.7	Martin station	469
133.8	Grand Trunk Pacific (National Transcontinental) Ry. crossing	460
135.8	L'Eglise station	489
137.8	St. Leonard, junc. with Intercolonial railway (International railway)	509.4
138.9	Grand River station (closed)	450
141.7	Sigas station	453
145.8	Quisibis river, bed, 437; rail	458
146.1	Quisibis station	456
148.8	Thériault "	464
149.7	Lynch "	473
151.6	Lapointe "	468
152.0	Green river, high water, 456; low water, 437; bed, 426; rail	459
153.1	Green River station	485.6
158.3	St. Basil station	483
161.8	Summit siding	510
162.9	Edmundston, junction with Temiscouata railway	478.9

CANADIAN PACIFIC RAILWAY

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	Miles from Perth	CANADIAN PACIFIC RAILWAY—TOBIQUE BRANCH	Elevation above mean sea level
	0.0	Perth, junction with Edmundston branch, 100.2 miles from McAdam	257.8
	2.3	Millicete station	252
	4.0	Tobique Narrows station	342
	7.0	Rowena station	303
	8.1	Quaker brook, bed, 273; rail	284
	9.5	Currie station	291
	11.2	Hillside station	339
	13.7	Red Rapids station	354
	14.2	Trout brook, water, 325; bed, 322; rail	340
	14.5	Licford station	335
	15.9	Arthurette station	356
	18.7	Odell River station	351
	18.9	Odell brook, extreme freshet, 342; water, 334; rail	346
	19.7	Beveridge station	355
	21.8	Reed Island station	371
	22.8	Three Brooks station	367
	24.9	Grand Trunk Pacific Ry. (National Transcontinental) crossing, G.T.P. Ry., rail, 460; Can. Pac. Ry., rail	384
	25.8	Wapske station	386
	25.9	Wapskehegan river, extreme freshet, 377; ordinary water, 349; rail	381
	26.6	Arbuckle station	382
	27.5	Plaster Rock station	385
		CANADIAN PACIFIC RAILWAY—HOULTON BRANCH	
	0.0	Debec, junction with Edmundston branch, 40.0 miles from McAdam	551.3
	1.8	Elmwood station	585
	3.5	Green Road station, N.B.	594
	5.0	International boundary	525.9
	8.0	Houlton station, Me.	444
		CANADIAN PACIFIC RAILWAY—GIBSON BRANCH	
	0.0	Fredericton, junction with Fredericton branch	32
	1.5	St. John river, high water, 12; extreme high water, 28; extreme low water, 4; rail, centre of draw span	35
	1.7	Gibson, junction with Intercolonial railway, Fredericton branch	35
	2.9	St. Mary station	36
	4.2	Nashwaaksis station	39
	4.3	Nashwaaksis river, water, 25; bed, 20; rail	38
	7.6	Spring Hill station	65
	10.2	Sugar Island station	46
	11.9	Rockland "	44
	13.6	Keswick "	37
	18.1	Cardigan "	57
	19.3	Smith Corner "	69
	21.6	Zealand "	106
	25.1	Stoneridge "	133
	27.7	Burnside "	212
	30.2	Upper Keswick station	268
	33.8	Summit, rail	534
	36.1	Cahill station	460
	38.6	Hainesville station	356
	40.2	Millville station	478
	41.9	Gravel Hill tank	490
	42.8	Woodstock Road station (summit)	545

Miles from Fredericton	CANADIAN PACIFIC RAILWAY—GIBSON BRANCH	Elevation above mean sea level
44.5	Nackawic station.....	455
48.7	County Line station.....	519
50.2	Fall Brook station (closed)	534
50.9	Carr station.....	593
53.6	Shewan station.....	640
55.8	Summit.....	641
58.5	Cootehill station.....	283
60.8	Newburg, junction with Edmundston branch, 55.3 miles from McAdam.....	144
Miles from Aroostook	CANADIAN PACIFIC RAILWAY—AROOSTOOK BRANCH	
0.0	Aroostook, N.B., junction with Edmundston branch, 105.7 miles from McAdam.....	276.0
0.7	International boundary	372.9
3.0	Tinker station, Me.	372
7.5	Fort Fairfield station.....	365
8.6	Hockenhall station.....	365
9.9	Stevens Mill station.....	368
12.2	King station.....	403
12.7	Goodwin station.....	417
13.6	Walton station.....	419
14.7	East Lyndon station.....	425
15.7	Hurd station.....	421
19.5	Caribou station.....	441
22.6	McGraw station.....	442
24.6	Roberts ".....	441
27.6	Parkhurst ".....	420
28.9	Fisher ".....	417
30.5	Guioiu ".....	421
31.1	Daggett ".....	424
32.2	Washburn junction.....	453
33.9	Presque Isle station, Me.	505
Miles from Sherbrooke	QUEBEC CENTRAL RAILWAY—MAIN LINE	
0.0	Sherbrooke, Grand Trunk Ry. station.....	485.0
0.9	St. Francis river, water (April 29, 1889), 473; rail	508
1.3	Newington station.....	527
7.7	Summit.....	720
8.0	Moulton Hill switch.....	712
10.4	Ascot station.....	633.6
11.8	Sand Hill summit.....	683
13.7	Westbury station.....	662.6
14.6	Westbury tank.....	649
16.8	East Angus station.....	676.2
19.8	Basin.....	697
22.4	Everett siding.....	644.2
24.0	Dudswell, junction with Maine Central R.R.....	699.3
27.1	Creek, bed, 661; rail.....	671
27.6	Marbleton station.....	684
35.3	Weedon grade, summit.....	882
36.0	Weedon station.....	815
40.1	Weedon tank.....	814
41.0	St. Gérard station.....	839
47.4	Garthby station.....	825

CANADIAN PACIFIC RAILWAY

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Miles from
Sherbrooke

QUEBEC CENTRAL RAILWAY—MAIN LINE

Elevation
above mean
sea level

49.5	Lake Aylmer, high water.....	816
49.8	Moose Bay river, rail.....	822
52.4	Creek (same level as St. Francis river), high water, 817; rail.....	829
52.7	Disraeli station.....	829
57.6	Coleraine station.....	869
63.4	Black Lake station.....	940
67.5	Thetford station.....	1,026
69.3	Creek, bed, 1,043; rail.....	1,063
72.0	Robertson station.....	1,205
77.3	Broughton tank.....	1,141
78.4	Leeds station.....	1,106
82.9	Summit.....	1,251
83.6	East Broughton station.....	1,224
89.4	Rivière des Fermes, bed, 1,037; rail.....	1,053
90.6	Tring, junction with Tring and Megantic branch.....	1,068
98.6	Chaudière river, high water, 486; bed, 455; rail.....	491
98.7	Valley, junction with Ste. Sabine branch.....	491
99.2	Beauce tank.....	487
106.0	St. Mary station.....	480
110.3	Scott station.....	476
117.0	Ste. Hénédine station.....	646
117.7	Summit.....	656
120.7	Grand Trunk Pacific Ry. (National Transcontinental) crossing, G.T.P. Ry., rail, 577; Q.C. Ry., rail.....	551
121.2	River Etchemin, high water, 503; low water, 486; rail.....	524
121.8	St. Anselme station.....	503
124.0	Summit.....	536
129.0	St. Henry station.....	292
132.0	Carrier, junction with Intercolonial Ry., Chaudière branch.....	300
137.8	Harlaka, junction with Intercolonial railway, main line, 669.3 miles from Halifax.....	240.0
140.9	St. Joseph de Lévis station.....	87.8
142.4	Lévis station.....	16.0

QUEBEC CENTRAL RAILWAY—TRING AND
MEGANTIC BRANCHMiles from
Tring

0.0	Tring, junction with main line, 90.6 miles from Sherbrooke.....	1,068
1.3	Summit.....	1,083
3.8	Rivière des Ormes, bed, 996; rail.....	1,009
6.0	Brook, bed, 908; rail.....	920
7.3	Brook, water, 799; rail.....	819
8.6	Road crossing.....	783
10.0	Rivière Le Bras, high water, 699; water (June, 1891), 694; rail..	715
11.0	St. Victor de Tring station.....	721
12.6	Brook, bed, 692; rail.....	710
14.0	Rivière Le Bras, high water.....	708
16.1	Rivière Le Bras, high water, 711; water (June, 1891), 705; rail...	719
17.0	St. Ephrem station.....	737
24.0	St. Evariste station.....	992
25.4	Road crossing.....	1,023
29.0	Gosselin brook, bed, 1,100; rail.....	1,110
30.0	Summit.....	1,130
32.0	Courcelles station.....	1,052
32.5	East branch Blueberry river, water, 1,017; rail.....	1,056

Miles from Tring	QUEBEC CENTRAL RAILWAY—TRING AND MEGANTIC BRANCH	Elevation above mean sea level
32.7	Blueberry river, water, 1,019; rail.....	1,060
36.5	Blueberry river, high water, 1,260; rail.....	1,271
41.0	St. Sébastien station.....	1,516
43.0	Savage river, water above dam, 1,545; rail.....	1,567
45.3	Summit, ground, 1,701; rail.....	1,691
46.0	St. Samuel station.....	1,678
49.7	St. Cécile station.....	1,671
54.5	Moose river, extreme high water, 1,354; bed, 1,348; rail.....	1,413
60.2	Megantic station.....	1,319
	Lake Megantic, extreme high water.....	1,303

Miles from Valley	QUEBEC CENTRAL RAILWAY—STE. SABINE BRANCH	
0.0	Valley, junction with main line, Quebec Central Ry., 98.7 miles from Sherbrooke.....	491
5.0	St. Joseph station.....	491
9.3	Colway brook, bed, 470; high water, 492; rail.....	489
10.4	Rivière la Plante, bed, 479; high water, 493; rail.....	489
11.0	Rivière le Rocher, high water, 494; rail.....	494
15.0	Beauceville station.....	557
24.0	St. George ".....	619
36.0	Morisset ".....	994
42.0	St. Rose ".....	1,065
47.0	St. Germaine ".....	1,123
52.0	St. Justine ".....	1,276
53.0	Summit.....	1,286
55.0	St. Sabine station.....	1,224

Miles from St. Sabine	QUEBEC CENTRAL RAILWAY—STE. SABINE BRANCH (Projected Extension)	
0.0	St. Sabine station.....	1,224
5.0	St. Camille station ground.....	1,185
12.5	Ground surface, northerly quarter of lot 11, con. 6, Bellechasse	1,172
14.1	Road between lot 1, con. 6, Bellechasse and lot 46, con. 7, Panet township.....	1,175
16.9	Schedule brook, crossing line between lots 31 and 32, con. 7, Panet township.....	1,157
18.2	Grade at line between lots 21 and 22, con. 7, Panet township.....	1,192
20.0	Ground surface on lot 15 at line between con. 6 and 7, Panet tp.	1,177
21.9	Grade on lot 1, con. 13, Talon tp.	1,152
22.0	Ground surface at crossing of Knowles brook at line between lots 3 and 4, con. 13, Talon tp.	1,122
23.5	Ground surface on northerly quarter of lot 11, con. 13, Talon tp.	1,132
28.0	English lake, water.....	1,181
31.1	Road between lot 52, con. 9, Talon, and lot 1, con. 9, Leverrier tp.	1,202
32.5	Summit, N.W. corner, lot 7, con. 9, Leverrier tp.	1,282
36.0	Lac Leverrier, water.....	1,277
37.0	Summit at northerly end of lot 26, con. 6, Leverrier tp.	1,307
46.3	West ranch Big Black river, S. end lot 23, con. 4, Casgrain tp.	1,007
47.2	Ground surface, crossing of Trout brook, south end, lot 19, con. 4, Casgrain tp.	1,007
49.1	Line between con. 4 and 5, S. end lot 9, Casgrain tp.	1,122
53.5	Road at crossing of line between lots 38 and 39 and 1.7 miles south of St. Pamphile.....	1,282

CANADIAN PACIFIC RAILWAY

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Miles from
Drummondville
Junc.CANADIAN PACIFIC RAILWAY—DRUMMONDVILLE
BRANCHElevation
above mean
sea level

0-00	Drummondville junction, with Newport branch 16.2 miles from Brigham junction	557.8
2-44	Ruiters Mills station	658
2-54	South branch Yamaska river, water (July, 1892), 647; rail	660
3-63	Brome station	676.9
6-67	North branch Yamaska river, water (July, 1892), 647; rail	680
6-86	Knowlton station	680.2
8-06	Bancroft station	659
8-35	Brome lake, water (July 7, 1892), 648; rail	666
9-20	Fisher siding	663
9-22	Summit	672
12-14	Foster, junction with "Short Line," 412.2 miles from St. John	696.4
14-32	Summit, ground, 757; rail	754
15-96	Central Vermont R. R. crossing	709
16-59	Waterloo station	676
16-65	North branch Yamaska river, bed, 667; rail	674
18-95	Brook, water, 667; bed, 664; rail	674
19-07	Warden station	670
20-95	Marston station	587
21-80	Brook, water, 532; bed, 519; rail	533
23-44	Lincoln brook, bed, 488; rail	516
24-03	Cleary station	520
25-14	Savage Mills station	568
26-65	Summit, ground, 616; rail	610
28-96	South Roxton station	513
29-60	Depression, ground, 491; rail	497
30-60	Summit, ground, 540; rail	538
32-34	Casgrain station	437
35-88	Black river, water, 330; bed, 323; rail	342
35-99	Roxton Falls station	347
37-70	Little river, water, 255; rail	272
38-83	Coderre station	278
38-95	Lavoie station	278
41-72	Acton station	316
41-95	Grand Trunk Ry., Eastern Division, main line, crossing	318
42-23	Moose river, high water, 309; water (July 1892), 302; bed, 300; rail	313
45-54	Chicoine station	392
47-10	Summit, rail	458
49-10	Brook, bed, 343; rail	353
50-27	Wickham station	376
51-76	Bramhall station	378
52-27	Black river, high water, 281; low water, 275; bed, 268; rail	300
55-49	Tourville station	286
58-87	Intercolonial Ry. crossing	297
59-21	Drummondville, junction with L'Avenir branch (disused)	265
59-89	Black river, high water, 250; low water, 245; bed, 240; rail	267
64-05	St. Germain station	283
64-65	Summit, ground, 310; rail	306
68-92	Boulogne station	241
69-87	River David, bed, 210; rail	217
74-73	St. Guillaume, junction with St. Guillaume branch	144
74-98	Brook, bed, 120; rail	138
75-94	River David, bed, 100; rail	134
77-30	River David, bed, 97; rail	128
81-46	St. David station	94
82-76	Brook, bed, 53; rail	87
85-62	Yamaska East, junction with Quebec, Montreal & Southern Ry	54.0

(Abandoned)

Miles from Farnham	CANADIAN PACIFIC RAILWAY—STANBRIDGE BRANCH	Elevation above mean sea level
0.0	Farnham , junction with "Short Line," 438.4 miles from St. John	191
3.6	Ste. Sabine station.....	193
9.1	Mystic station.....	180.8
11.5	Bedford station.....	179.0
13.8	Stanbridge station.....	169

Miles from Farnham	CANADIAN PACIFIC RAILWAY—ST. GUILLAUME BRANCH	
0.00	Farnham , junction with "Short Line," 438.4 miles from St. John..	191
0.37	Central Vermont R.R. crossing.....	209
0.41	Yamaska river, water (May, 1885), 188; rail.....	213
5.57	Canrobert station.....	236
6.38	Summit, ground, 247; rail.....	243
9.62	Papineau station.....	212
11.50	Abbottsford station.....	208
12.29	Summit.....	231
16.20	Black river, water (May, 1885), 104; rail.....	132
16.37	St. Pie station.....	131
24.71	St. Hyacinthe station.....	108
26.42	Ste. Rosalie junction, with Intercolonial Ry. and Grand Trunk Ry. Eastern Division, main line	111
27.30	Ste. Rosalie station.....	107
31.75	Brook, water, 100; bed, 97; rail.....	116
33.05	St. Simon station.....	117
37.97	River Chibouet water (June, 1885), 51; bed, 46; rail.....	110
38.10	St. Hugues station.....	112
40.88	Cavignac station.....	117
41.03	Riv. des Foins, water, 103; rail.....	118
43.07	St. Prime station.....	123
45.32	Gordon station.....	140
46.08	L'Heureux station.....	143
46.72	St. Guillaume station	144

Miles from Drummondville	CANADIAN PACIFIC RAILWAY—L'AVENIR BRANCH (Abandoned)	
	Drummondville , junction with Drummondville branch, 59.21 miles from Drummondville junction	265
0.00	L'Avenir branch switch.....	295
2.62	Onion brook, bed, 301; rail.....	314
5.05	Saw-mill switch.....	359
5.13	End of rails.....	361
8.48	Brook, bed, 368; grade.....	401
10.26	End of grade.....	429

Miles from Troy	CANADIAN PACIFIC RAILWAY—ORFORD BRANCH	
0.0	Troy , junction with Newport branch, 44.7 miles from Brigham junction	573
1.9	Brook, rail	514
4.5	Mansonville station.....	647
6.4	Peabody station.....	634
8.9	Travor Road station.....	636
11.5	Potton Springs station.....	674
12.4	South Bolton station.....	712

CANADIAN PACIFIC RAILWAY

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Miles from
TroyCANADIAN PACIFIC RAILWAY—ORFORD
BRANCHElevation
above mean
sea level

15.4	Bolton Centre station.....	791
22.8	Eastman station.....	822
23.2	Eastman junction, with "Short Line," 403.9 miles from St. John	910.2
26.9	Kartoum station.....	824
30.1	Black river, bed, 770; rail.....	776
30.9	North Stukely station.....	735
32.3	Lawrenceville station.....	707
32.3	Black river, southwest of Lawrenceville station, water	692
36.8	Valcourt station.....	727
40.3	Racine station.....	806
42.4	Summit.....	922
43.1	Flodden station.....	888
45.3	Miller creek, bed, 771; rail.....	784
49.4	Kingsbury station.....	550
53.0	Melbourne station.....	397
58.8	Windsor Mills station.....	408

Miles from
Brigham Junc.

CANADIAN PACIFIC RAILWAY—NEWPORT BRANCH

0.0	Brigham Junction, with "Short Line," 432.1 miles from St. John	268
1.0	Brigham station.....	298
3.9	Mapledale station.....	346
4.9	South branch Yamaska river, water, 303; bed, 300; rail.....	328
5.7	Stream, water (Dec., 1891), 319; bed, 316, rail.....	342
7.0	Cowansville station.....	379
9.0	Sweetsburg station.....	442
9.3	Summit.....	447
10.2	Stream, water, 387; bed, 375; rail.....	409
11.8	West Brome station.....	413
12.4	South branch Yamaska river, water (Dec., 1891), 411; bed, 408, rail.....	132
16.2	Drummondville junction, with Drummondville branch.....	557.8
17.1	Westover station.....	620
17.2	Summit, rail.....	643
19.4	Sutton station.....	581.2
20.4	Brook, water, 544; rail.....	550
24.8	Abercorn station, Que.....	485.7
26.2	International boundary.....	495
27.4	Richford station, Vt.....	500
28.2	Missisquoi river, water, 441; bed, 438; rail.....	472
28.4	Central Vermont Ry. junction, Vt.....	479
30.7	Stevens Mills station, Vt.....	495
32.6	Missisquoi station.....	508
32.7	International boundary.....	508
35.6	Glendon station, Vt.....	526
38.5	Manuel siding.....	517
39.6	Crowell ".....	516
41.6	Highwater station.....	516
44.1	North Troy station, Vt.....	604
44.2	High bridge, water, 515; bed, 512; rail.....	582
44.7	Troy, junction with Orford branch.....	573
50.7	Centre station.....	777
52.7	Summit siding.....	926
53.4	Summit, ground, 974; rail.....	946
57.8	Lake Memphremagog, water (Feb. 3, 1892).....	682
58.4	Newport station, Vt.....	691

Miles from
Montreal

CANADIAN PACIFIC RAILWAY—QUEBEC BRANCH

Elevation
above mean
sea level

0.0	Montreal, Place Viger station.....	5
12.8	St. Martin junction, with Ottawa subdivision.....	109
17.6	St. Vincent de Paul station.....	71
22.7	Rivière Jésus or Mille Îles, water, 26; bed, 16; rail.....	54
22.5	De Sales station.....	54
23.2	Terrebonne station.....	60
27.0	Mascouche station.....	63
27.6	Mascouche river, bed, 25; rail.....	62
28.2	Cabane Ronde brook, bed, 40; rail.....	55
30.0	Cabane Ronde station.....	59
35.5	L'Epiphanie station.....	72
36.0	Canadian Northern Ry., Quebec and Montreal, crossing.....	72
36.1	L'Achigan river, bed, 18; rail.....	72
37.1	River St. Esprit, bed, 24; rail.....	68
38.3	L'Assomption river, bed, 15; rail.....	62
39.5	Vauchuse station.....	76
43.2	Lavaltrie.....	84
48.5	Lanoraie, junction with St. Gabriel branch.....	69
55.5	Chaloupe river, bed, 20; rail.....	56
56.8	Berthier junction, with Berthier branch.....	36
58.9	Berthier station.....	27
57.0	Bayonne river, bed, 10; rail.....	36
60.2	St. Cuthbert station.....	38
64.9	St. Barthélemi station.....	33
70.1	Maskinonge river, high water, 26; low water, 20; rail.....	49
70.4	Maskinonge station.....	49
74.5	Louiseville.....	42
74.7	Riv. du Loup, water, 30; bed, 9; rail.....	44
80.1	Yamachiche station.....	33
81.5	Yamachiche river, water, 29; bed, 22; rail.....	42
84.1	Riv. aux Glaises, water, 25; bed, 23; rail.....	36
87.1	Pointe du Lac station.....	67
93.0	River Aubrey, bed, 25; rail.....	35
95.1	Three Rivers, junction with St. Maurice Valley branch.....	51
96.2	River St. Maurice, water, 17; rail.....	62
97.7	Piles junction, with Piles branch and Cap de la Magdeleine spur.....	122
100.2	Cap de la Magdeleine, end of spur at mill.....	44
103.5	Oxide station.....	74
107.7	Champlain station.....	46
109.2	Champlain river, bed, 13; rail.....	41
114.7	Batiscan station.....	33
115.1	Batiscan river, water, 31; rail.....	38
119.2	Ste. Anne river, (west bridge), water, 23; rail.....	36
119.4	Ste. Anne river, (east bridge), water, 21; rail.....	37
119.9	La Pêrade station.....	38
127.1	Grondines station.....	124
129.0	Petite Lachevrotière river, water, 102; rail.....	109
130.2	Lachevrotière station.....	103
130.3	Lachevrotière river, water, 89; rail.....	103
130.6	Canadian Northern Quebec Ry. crossing.....	103
131.5	Rivière Belle Ile, water, 109; rail.....	115
133.6	Deschambault station.....	189
137.8	Portneuf station (summit).....	192
138.6	Portneuf river, water, 88; rail.....	162

* For stations between Montreal and St. Martin junction, see Ottawa subdivision, page 39.

Miles from
Montreal

CANADIAN PACIFIC RAILWAY—QUEBEC BRANCH

Elevation
above sea level

140.1	St. Denis rail	227
142.1	St. Bazile station	202
142.7	Depression, rail	1—
143.0	Grand Trunk Pacific Ry. (National Trunk) crossing	1—4
147.0	Pont Rouge station	388
147.5	Jacques Cartier river, water, 278; rail	380
153.7	Trenholme station	418
158.8	Cap Rouge river, water, 182; bed, 172; rail	190
159.2	Belair station	1—
163.6	Cham-pigny river, water, 119; bed, 117; rail	143
165.1	Lorrette station	38
168.6	Canadian Northern Ry., Quebec and Montreal crossing	60
172.5	Quebec station	19

Miles from
Three Rivers

CANADIAN PACIFIC RAILWAY—THREE RIVERS BRANCH

0.0	Three Rivers station	51
2.6	Piles junction, with Quebec branch, 97.7 miles from Montreal	122
5.3	River Champlain, water, 131; rail	154
9.3	St. Maurice station	181
11.1	Radnor	140
13.8	St. Narcisse	80
20.2	Summit	—
20.9	Lac à la Tortue station	63
23.8	Garneau, junction with Canadian Northern Ry.	—
	Montreal	444
24.9	Summit	502
26.4	Proulx station	50
29.5	Grandes Piles station	50

Miles from
Lanoraie

CANADIAN PACIFIC RAILWAY—ST. GABRIEL BRANCH

0.0	Lanoraie, junction with Quebec branch, 48.5 miles from Montreal	69
2.6	St. Thomas station	98
6.3	Joliette station	192
7.6	Canadian Northern Ry., Quebec and Montreal, crossing	204
11.5	St. Emilie station	235
16.7	St. Felix	307
19.2	River Bayonne, water, 355; rail	389
20.8	St. Cléophas station	465
27.4	Summit	627
27.6	St. Gabriel station	604

Miles from
St. Gabriel

Proposed Extension

0.0	St. Gabriel station	604
1.9	Depression	504
5.3	Maskinonge river, water, 467; rail	497

Miles from
Three RiversCANADIAN PACIFIC RAILWAY—ST. MAURICE
VALLEY BRANCH

0.0	Three Rivers, junction with Quebec branch, 95.1 miles from Montreal	51
1.5	Bureau station	105
3.6	Rochon Road station (closed)	180
9.9	Marchand station	208

Miles from
Three RiversCANADIAN PACIFIC RAILWAY—ST. MAURICE
VALLEY BRANCHElevation
above mean
sea level

13.0	Darey station.....	138
14.5	Les Grès station.....	118
14.8	St. Maurice river, water, 101; rail.....	128
16.7	Mont Carmel station.....	159
19.7	St. Maurice river, water, 141; rail.....	248
20.5	Terminal junction.....	288
21.1	Shawinigan Falls station.....	306
21.3	Canadian Northern Ry., Shawinigan branch, crossing, C.P. Ry., rail.....	314
27.4	Grand'mère station.....	427

CANADIAN PACIFIC RAILWAY—LAURENTIAN
BRANCHMiles from
Ste. Thérèse

Ste. Thérèse, junction with Ottawa subdivision, 19.9 miles from

0.0	Montreal.....	122
1.8	St. Lin junction, with St. Lin branch.....	218
7.2	St. Janvier station.....	217
11.8	Montfort junction, Canadian Northern Ry., Joliette and Hawkesbury, crossing.....	247
13.3	St. Jérôme station.....	307
18.1	Paquin station.....	532
21.0	Lesage station.....	579
21.9	Shawbridge station.....	593
26.1	Piedmont station.....	547
29.1	Ste. Adèle station.....	631
33.8	St. Margaret station.....	900
37.2	Indian Mountain summit, ground, 1,070; rail.....	1,022
37.4	Val Morin station.....	1,013
39.7	Bélisle Mill station.....	1,055
43.8	Ste. Agathe station.....	1,207
44.2	Summit, at road crossing.....	1,260
45.7	Rivière aux Sables, bed, 1,182; rail.....	1,190
47.5	Ivry station.....	1,208
49.2	Degrosbois station.....	1,225
51.6	Nantel station.....	1,266
53.4	Labarge Mill station.....	1,343
54.7	Summit station.....	1,381
55.5	Summit, ground, 1,429; rail.....	1,406
57.1	St. Faustin station.....	1,254
60.7	Morrison station.....	889
65.1	St. Jovir station.....	700
67.5	Devil river, high water, 651; low water, 645; rail.....	683
70.7	Mont Tremblant station.....	745
71.3	Lake Sam, ice (Feb., 1888).....	737
73.3	Summit, lake, water, 758; rail.....	761
73.4	Summit, ground, 774; rail.....	764
73.9	Conception station.....	720
80.2	Labelle station.....	746
85.4	Macaza station.....	776
8.2	River Rouge, high water, 726; rail.....	762
93.3	Annonciation station.....	816
95.8	Haliberte brook, bed, 797; rail.....	831
96.9	Lacoste station.....	850
100.3	Lake Nominig, bed 860; rail.....	863
101.9	Bellerive station.....	836
103.4	Nominig river, bed, 819; rail.....	836
103.7	Nominig station.....	835
107.6	Loranger station.....	862
114.6	Hébert.....	1,078

Miles from Ste. Thérèse	CANADIAN PACIFIC RAILWAY—LAURENTIAN BRANCH	Elevation above mean sea level
123.0	Campeau station.....	1,007
129.7	Barrette station.....	793
138.2	Mont Laurier station.....	733
CANADIAN PACIFIC RAILWAY—ST. EUSTACHE BRANCH		
Miles from Ste. Thérèse		
0.0	Ste. Thérèse, junction with Ottawa subdivision, 19.9 miles from Montreal.....	122
4.5	Chicot station.....	101
6.0	St. Eustache station.....	100
CANADIAN PACIFIC RAILWAY—ST. LIN BRANCH		
Miles from St. Lin Junc.		
0.0	St. Lin Junction, with Laurentian branch.....	218
1.3	Summit.....	236
5.3	Mascouche river, bed, 148; rail.....	195
5.6	Lepage station.....	186
7.4	River Lacorne, bed, 160; rail.....	190
7.5	Bruchesi station.....	194
8.3	Summit.....	228
10.5	La Plaine station.....	199
14.8	Achigan river, bed, 161; rail.....	200
15.1	St. Lin station.....	211
CANADIAN PACIFIC RAILWAY—BUCKINGHAM BRANCH (abandoned)		
Miles from Buckingham		
0.0	Buckingham, junction with Ottawa subdivision, 99.9 miles from Montreal.....	191
1.4	Summit, ground, 454; rail.....	448
3.6	Buckingham village.....	445
4.1	Buckingham landing.....	431
4.1	Bed of stream, about level of ordinary water, Lièvre river.....	421
CANADIAN PACIFIC RAILWAY—OTTAWA SUBDIVISION		
Miles from Montreal		
0.0	Montreal, Place Viger station.....	58
2.1	Hochelaga station.....	64
4.5	Summit.....	225
5.1	Mile End station.....	223
5.9	Breslay station.....	194
8.5	Jacques Cartier, junction with Grand Trunk Ry., Jacques Cartier Union branch.....	98
9.9	Bordeaux station.....	75
9.9	Riv. des Prairies, water (Mar. 26, 1906), 51; rail.....	73
10.7	Rapides Laval station.....	74
11.9	Little St. Martin station.....	107
12.8	St. Martin junction, with Quebec branch.....	109
17.2	Ste. Ros. station.....	84
17.4	Riv. des Mille Isles, water (Mar., 1906), 66; bed, 47; rail.....	80
17.9	Rosemere station.....	91
19.9	Ste. Thérèse, junction with Laurentian and St. Eustache branches.....	122
27.5	St. Augustin station.....	223
30.1	Summit, ground, 277; rail.....	273
32.4	Ste. Scholastique station.....	237
32.6	Belle river, water (Mar., 1906), 215; rail.....	238

Miles from
MontrealCANADIAN PACIFIC RAILWAY—OTTAWA
SUBDIVISIONElevation
above mean
sea level

37.3	St. Hermas station.....	256
43.1	Summit, ground, 264; rail.....	260
44.1	Lachute station.....	228
44.5	North river, water (March, 1906), 193.5; rail.....	209
48.8	Staynerville station.....	260
51.4	Summit, ground, 344; rail.....	338
56.8	Kingey brook, ice (March, 1906), 213; rail.....	226
57.6	Grenville station.....	210
59.6	Calumet station.....	196
59.7	Calumet river, water (Mar., 1906), 146.5; rail.....	182
61.6	Rouge river, high water (May, 1876), 140; water (Mar., 1906), 133; rail.....	179
64.0	Riv. au Chêne, low water, 162; rail.....	185
64.8	Pointe au Chêne station.....	188
66.9	Salmon brook, water (Mar., 1906), 136.5; rail.....	164
70.8	Fassett station.....	170
72.5	Salmon river, high water (1876), 140; ice (Mar., 1906), 130; or- dinary low water, 126; rail.....	162
74.5	Montebello station.....	172
79.1	Papineauville station.....	155
83.8	Plaisance station.....	188
84.4	North Nation river, high water (1876), 141; ice, (Mar., 1906), 133; rail.....	186
89.0	Rivière Petite Blanche, high water (1876), 168; ordinary high water, 161; rail.....	185
90.5	Thurso station.....	187
92.5	Rivière Blanche Est, water (July 27, 1874), 136; ice, 134; rail....	172
94.0	Lochaber station.....	182
99.9	Buckingham station.....	191
100.2	Lièvre river, water (Mar. 28, 1906), 166; rail.....	190
103.8	Angers station.....	189
109.5	Rivière Blanche Ouest, water (Mar. 23, 1906), 137; rail.....	156
109.7	East Templeton station.....	161
114.4	Gatineau station.....	180
116.0	Gatineau river, water (April, 1906), 136; rail.....	184
118.5	Hull, junction with main line.....	190.9
119.9	Ottawa river, Prince of Wales bridge, high water (1876), 177; (1877), 169; (1878), 170; (1879), 165; rail.....	190.8
120.4	Ottawa, Broad St. station.....	181.0

CANADIAN PACIFIC RAILWAY—MANIWAKI
BRANCHMiles from
Hull

0.0	Hull station.....	190.9
0.7	Maniwaki junction, with main line, 113.0 miles from Montreal ..	167.0
3.7	Ironsides station.....	185
4.5	Stream, bed, 135; rail.....	195
7.2	Chelsea station.....	369
7.7	Summit, rail.....	403
9.4	Depression, rail.....	291
9.6	Tenaga station.....	296
10.9	Kirks Ferry station.....	297
11.4	Bay of Gatineau river, water, 290; rail.....	300
13.5	Summit, ground, 371; rail.....	369
14.7	Cascades station.....	307
16.7	Farm Point station.....	327

CANADIAN PACIFIC RAILWAY

41

Miles from
HullCANADIAN PACIFIC RAILWAY—MANIWAKI
BRANCHElevation
above mean
sea level

19.6	Rockhurst station.....	330
20.2	Rivière Pêche, water, 310; rail.....	332
20.4	Wakefield station.....	330
22.9	Indian creek, water, 323; rail.....	338
23.6	Alcove station.....	338
26.4	Bay of Gatineau river, water, 326; rail.....	345
27.5	Poupore station.....	361
28.8	Farrellton station.....	345
32.1	Brennan station.....	368
32.4	McGoey brook, water, 331; rail.....	364
33.3	Stag creek, bed, 324; rail.....	349
34.0	Low station.....	412
35.4	Brook, water, 417; rail.....	456
36.5	Summit, ground, 545; rail.....	540
40.1	Venosta station.....	549
43.1	Sully station.....	589
45.6	Kazabazua creek, bed, 517; rail.....	564
46.1	Kazabazua station (summit).....	600
47.8	Aylwin station.....	497
52.2	Marks station.....	596
56.6	Pickanock river, water, 483; rail.....	512
58.4	Gracefield station.....	599
61.4	Summit, ground, 623; rail.....	618
63.8	Castor creek, bed, 573; rail.....	577
66.3	Blue Sea station.....	551
67.7	Blue Sea lake, high water, 539; water (Mar., 1895) ..	535
69.2	Ellard station.....	557
69.9	Rockaven station.....	563
70.8	Burbridge station.....	571
72.0	Summit, ground, 647; rail.....	635
73.7	Brook, bed, 574; rail.....	582
74.9	Farley station.....	573
80.5	Summit.....	598
81.4	Maniwaki station.....	570

Miles from
Hull

HULL AND AYLNER ELECTRIC RAILWAY

0.0	Hull, junction with main line, 113.6 miles from Montreal.....	190.9
5.1	Deschênes station.....	205
7.6	Aylmer station.....	216

Miles from
HullCANADIAN PACIFIC RAILWAY—WALTHAM
BRANCH

0.0	Hull, junction with main line, 113.6 miles from Montreal.....	190.9
4.8	Deschênes station.....	197
7.4	Aylmer station.....	216
15.2	Breckenridge station.....	219
16.8	Ferris creek, water, 205; rail.....	216
20.8	Eardley station.....	222
22.8	Parker ".....	234
26.8	Mohr ".....	229

Miles from Hull	CANADIAN PACIFIC RAILWAY—WALTHAM BRANCH	Elevation above mean sea level
30.6	Quio station	278
31.3	Quio river, high water, 245; low water, 242; rail	285
33.6	Bristol Mines junction	396
37.8	Bristol Mines, end of spur (disused)	317
33.7	Wyman station	399
37.1	Water tank, bed of stream, 456; rail	474
37.9	Maryland station	483
40.5	McKee "	525
44.5	Shawville "	572
46.4	Summit, ground, 618; rail	614
51.2	Morehead station	505
55.6	Campbell Bay station	363
59.2	Franktown creek, bed, 357; rail	365
60.1	Vinton station	369
67.1	Coulange station	367
68.7	Coulange river, extreme high water, 355.5; ordinary high water, 351.5; low water (October, 1886), 340.5; rail	386
69.0	Davidson station	364
74.3	Mellon "	366
77.6	Waltham "	369
77.9	Ottawa river at Waltham, ordinary high water, 355; low water (September 30, 1889)	342

Miles from Mattawa	CANADIAN PACIFIC RAILWAY—TIMISKAMING BRANCH	
0.0	Mattawa, junction with main line, 314.5 miles from Montreal ..	562.4
0.8	" Town Hall station	519
0.9	Ottawa river, high water (1890), 512; (1891), 509; (1892), 505; (1893), 510; low water, 498; rail	522
6.6	Mica station	530
10.9	Snake Creek station	542
24.5	Crest station	550
30.5	Beauchêne station	549
36.5	Kipawa junction	578
37.9	Timiskaming station	591
38.5	Lumsden Mill station	800
40.0	Pike lake, low water	794
41.7	Long lake, low water, 820; rail	831
43.2	"T" lake, high water, 856; low water, 849; rail	861
	Junction to Ville Marie	862
45.7	Kipawa station	886
	Kipawa lake, low water, 874; water surface, (June, 1913) ..	884

Miles from Montreal	CANADIAN PACIFIC RAILWAY—ONTARIO AND QUEBEC LINE	
	<i>Montreal to Toronto</i>	
0.0	Montreal, Windsor station	110
1.6	Westmount station	153
3.1	Summit	197
4.8	Montreal junction	151
6.9	Western junction	157

Miles from
MontrealCANADIAN PACIFIC RAILWAY—ONTARIO AND
QUEBEC LINEElevation
above mean
sea level*Montreal to Toronto*

8.8	Dennistown station	108
9.6	Dorval "	89.0
11.5	Strathmore "	89
12.1	Valois "	89.1
12.7	Lakeside "	96.7
13.5	Cedar Park "	111.7
14.2	Pointe Claire "	110
15.0	Beaconsfield "	107.0
16.8	Beaurepaire "	106.8
18.6	Baie d'Urfé "	114.1
20.4	Ste. Anne station	117.7
20.8	Ottawa river, Ste. Anne bridge, low water (lake of Two Mountains), 70; rail	111.0
23.4	Ottawa river, Vaudreuil bridge, low water (lake of Two Mountains), 70; rail	94
23.7	Vaudreuil, junction with main line	86.1
26.3	Sunshine river, bed, 92; rail	125
28.5	St. Lazare station	163
34.5	St. Clet station	177
40.2	St. Polycarpe junction, with Grand Trunk Ry., Ottawa division	194.0
41.2	Delisle river, bed, 154; rail	192
43.7	St. Telesphore station	213.7
46.4	Dalhousie Mills station, Que.	226.5
46.7	Province line, Ontario and Quebec boundary	218
49.3	Summit	270
50.2	Glen Norman station, Ont.	253.0
54.1	Green Valley station	281.5
57.0	Glenroy station	264
60.7	River Beaudette, bed, 251; rail	266
62.8	Apple Hill station	301.5
68.2	Monklands station	330.8
72.2	Payne river, bed, 299; rail	309
72.9	Avonmore station	327.0
78.7	Payne river, bed, 257; rail	275
79.0	Finch, junction with Ottawa and New York Ry.	274.9
85.4	South Nation river, bed, 202; rail	230
86.8	Chesterville station	240.1
92.7	Winchester station	249.9
96.0	Inkerman station	267.1
100.7	Mountain station	272.5
104.4	Summit	350
107.0	Kempton, junction with Prescott branch	332.8
109.8	South Rideau river, water, 303; rail	325
111.4	Swan station	337
115.1	Burritt station	367
119.0	Rideau canal, water, 311; rail	355
119.5	Merrickville station	354
128.4	Smiths Falls, junction with Brockville branch	425
134.1	Elmsley station	438
140.0	Perth station	433
144.1	Glen Tay, junction with Lake Ontario Shore line	476
147.8	Bathurst station	479
155.1	Maberly "	574
157.3	Fall river, water, 580; rail	592
161.4	Ungava station	689

Miles from
MontrealCANADIAN PACIFIC RAILWAY—ONTARIO AND
QUEBEC LINEElevation
above mean
sea level*Montreal to Toronto*

162.7	Summit.	734
165.3	Sharbot Lake, junction with Kingston and Pembroke branch.	645
165.8	Sharbot lake, water.	634
171.2	Olden station.	731
172.1	Summit, ground, 771; rail.	751
174.4	Mountain Grove station.	681
180.1	Ardendale station.	618
180.6	Salmon river, bed, 608; rail.	629
185.1	Kennebec station.	665
190.2	Kaladar station.	702
190.4	Summit, ground, 716; rail.	708
194.3	Addington station.	588
198.9	Hungerford station.	555
201.1	Sulphide station.	482
202.9	Bogart station.	475
204.8	Stoco lake, water.	458
206.4	Tweed, Canadian Northern (Bay of Quinte) Ry. crossing.	475
210.3	Buller station.	590
214.5	Grand Trunk Ry., Madoc branch, crossing, G.T.Ry., rail, 559; Can. Pac. Ry., rail.	584
215.6	Ivanhoe station.	609
216.8	Summit.	652
220.1	Peterson station.	559
224.3	Central Ontario junction, with Canadian Northern (Central Ontario) Ry.	597
227.7	Crow river, water (Aug. 7, 1898), 583; rail.	599
229.3	Tiffin station.	643
233.2	Blairton station.	643
237.6	Havelock "	701
243.7	Norwood "	673
246.6	Asphodel "	731
248.4	Ouse river, bed, 644; low water, 646; rail.	662
252.1	Indian River station.	709
253.0	Indian river, bed, 658; water, 661; rail.	688
257.0	Otonabee station.	676
260.6	Botulf station.	636
261.7	Otonabee river, water (navigation level), 620; rail.	632.7
261.9	Peterborough station.	632
262.1	Grand Trunk Ry., Belleville and Midland, crossing.	637.0
268.0	Kendry station (closed).	653
270.8	Cavan "	643
274.6	Tapley "	819
275.5	Grand Trunk Ry., Port Hope and Omeme branch, crossing, G. T. Ry., rail, 836; Can. Pac. Ry., rail.	865
276.3	Bethany junction, with Port McNicoll branch.	852
279.1	Manvers station.	966
283.0	Pontypool station.	1,065
284.9	Summit.	1,105
287.4	Sandbank station.	1,092
291.9	Burketon, junction with Lindsay branch.	1,056
295.8	Brady station.	1,061
301.2	Myrtle "	886
301.5	Grand Trunk Ry., Whitby and Lindsay, G. T. Ry., rail, 895; Can. Pac. Ry., rail.	870
304.9	Dagmar station.	860

CANADIAN PACIFIC RAILWAY

45

Miles from
MontrealCANADIAN PACIFIC RAILWAY—ONTARIO AND
QUEBEC LINEElevation
above mean
sea level*Montreal to Toronto*

306.4	Glen Major station.....	842
307.2	Duffin brook, bed, 789; rail.....	839
310.1	Claremont station (summit).....	886
312.7	Glen Atha.....	788
313.7	Atha Road ".....	746
317.6	Locust Hill ".....	666
321.0	Rouge river, bed, 480; rail.....	526
322.0	Sherring station.....	549
323.5	Browns Corner station.....	563
325.6	Agincourt, junction with Lake Ontario Shore line.....	563
326.2	Grand Trunk Ry., Cobocok branch, G. T. Ry., rail, 544; Can. Pac. Ry., rail.....	568
327.6	Ellesmere station.....	574
328.9	Wexford station.....	541
330.3	Don river, water, 358; rail.....	469
330.3	Canadian Northern Ry., Toronto and Capreol, crossing, C. N. Ry., rail, 389; C. P. Ry., rail.....	469
331.2	Donlands station.....	451
332.0	Don river, water, 316; rail.....	417
333.1	Leaside, junction with loop line to West Toronto.....	426
335.4	North Toronto station.....	403.8
338.4	Davenport station.....	396
339.0	West Toronto station.....	393
334.4	Canadian Northern Ry., Toronto and Capreol, crossing, C. N. Ry., rail, 264; Can. Pac. Ry., rail.....	329
334.4	Don river, water, Oct. 27, 1911.....	254
336.4	Toronto, Don station.....	256
336.9	" Cherry St.....	256
338.4	" Union station.....	254

CANADIAN PACIFIC RAILWAY—ONTARIO AND
QUEBEC LINEMiles from
Toronto*Toronto to Windsor*

0.0	Toronto, Union station.....	254
0.9	" Bathurst St.....	257
2.3	" Parkdale station.....	305
3.8	" Bloor St.....	371
4.7	West Toronto, junction with Loop line to Leaside.....	393
6.4	Belt Line Ry. crossing.....	399
6.4	Lambton station (closed).....	399
7.1	Golf Club ".....	399
7.4	Humber river, high water, 315; low water, 303; bed, 301; rail.....	398
8.6	Mimico river, bed, 372; high water, 382; low water, 375; rail.....	403
8.8	Islington station.....	403
10.9	Summerville station.....	393
11.8	Etobicoke river, bed, 334; rail.....	377
12.6	Dixie station.....	376
14.3	Cooksville station.....	393
17.4	Erindale station.....	475
19.9	Credit river, bed, 455; high water, 459; rail.....	495
20.3	Streetsville station.....	503

Miles from Toronto	CANADIAN PACIFIC RAILWAY—ONTARIO AND QUEBEC LINE	Elevation above mean sea level
<i>Toronto to Windsor</i>		
21.6	Streetsville junction, with Orangeville branch.....	551
24.7	Lisgar station.....	679
27.6	Hornby station.....	652
32.1	Milton station.....	661
32.6	Grand Trunk Ry., Hamilton and Allandale, crossing.....	662
35.9	Christie station.....	821
38.0	Campbellville station.....	926
39.2	Guelph junction, with Hamilton and Goderich branch.....	962
42.0	McRae station.....	978
44.9	Puslinch station.....	988
45.7	Maloney station (closed).....	975
47.0	Wellington station (closed).....	956
50.5	Summit, rail.....	1,008
52.0	Leslie station.....	1,000
56.8	Grand Trunk Ry., Southampton branch, crossing, G. T. Ry., rail, 924; Can. Pac. Ry., rail.....	947
57.2	Galt station.....	936
57.3	Galt, Preston and Hespeler Ry. crossing, G. P. & H. Ry., rail, 917; Can. Pac. Ry., rail.....	936
57.4	Grand river, high water, 884; low water, 855; rail.....	935
57.5	Grand Trunk Ry., Galt and Elmira branch, crossing, G.T. Ry., rail, 906; Can. Pac. Ry., rail.....	935
60.3	Orr Lake station.....	1,053
62.7	Dumfries station.....	1,018
67.6	Ayr station.....	964
68.0	River Nith, bed, 919; rail.....	953
72.6	Wolverton station.....	961
74.2	Grand Trunk Ry., Buffalo and Goderich branch, crossing.....	1,012
74.3	Drumbo station.....	1,014
78.5	Blandford station.....	971
81.4	Thames river, bed, 947; water, 950; rail.....	971
81.6	Innerkip station.....	971
83.1	Thames river, bed, 928; water, 932; rail.....	951
87.6	Grand Trunk Ry., Stratford and Port Dover branch, crossing.....	948
87.9	Woodstock, junction with Ingersoll branch.....	948
88.7	South branch Thames river, bed, 910; rail.....	933
91.5	Summit.....	1,019
95.0	Ingersoll junction, with St. Marys branch.....	991
100.8	Middle branch Thames river, bed, 899; rail.....	955
101.0	Thamesford station.....	952
104.6	Nissouri station.....	924
109.1	Crumlin station.....	892
111.6	Grand Trunk Ry., St. Marys branch, crossing.....	860
112.0	Asylum station.....	854
114.6	London station.....	804
115.0	North branch Thames river, bed, 760; rail.....	798
117.7	Summit.....	907
118.5	Hyde Park station.....	903
118.7	Grand Trunk Ry., London and Wingham branch, crossing, G. T. Ry., rail, 877; Can. Pac. Ry., rail.....	903
121.5	Melrose station.....	868
125.1	Komoka station.....	813
126.4	Grand Trunk Ry., Sarnia branch, crossing.....	795
129.7	Caradoc station.....	804
133.7	Longwood station.....	766

CANADIAN PACIFIC RAILWAY

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Miles from
TorontoCANADIAN PACIFIC RAILWAY—ONTARIO AND
QUEBEC LINEElevation
above mean
sea level*Toronto to Windsor*

139.4	Appin, Michigan Central R. R., St. Clair division, crossing	750
140.3	North Appin station	745
144.7	North Glencoe station	733
146.4	Grand Trunk Ry., Kingscourt branch, crossing	720
151.9	Newbury station	682
156.5	Bothwell station	662
163.9	Thamesville station	623
169.3	Kent Bridge station	609
172.7	Arkwood station	606
177.4	Thames river, high water, 590; low water, 576; rail	601
178.3	Pere Marquette R. R., Sarnia branch, crossing	597
178.8	Chatham station	594
183.3	Grand Trunk Ry., main line, Niagara Falls and Windsor, crossing	589.3
185.5	Ringold station	581
190.0	Jeanette station	581
194.5	Tilbury station	580
200.5	Haycroft station	591
204.5	Ruscom river, high water, 578; low water, 575; rail	584
204.7	St. Joachim station	584
208.8	Belle River "	584
208.9	Belle river, high water, 578; low water, 575; rail	583
215.6	Elmstead station	592
222.7	Walkerville, junction with Pere Marquette R. R., Buffalo division	612
224.3	Lake Shore junction	616
227.2	Windsor station	580
	Detroit river at Windsor, mean water	575.6

CANADIAN PACIFIC RAILWAY—BROCKVILLE
BRANCHMiles from
Carleton Place

0.0	Carleton Place, junction with main line, 144.0 miles from Montreal, south track	450
4.6	Beckwith station	464
8.2	Franktown station	479
13.5	Welsh station	432
17.1	Smiths Falls, junction with Ontario and Quebec line, 128.4 miles from Montreal	425
18.4	Rideau canal, water, 349; rail	381
20.2	Story station	359
23.9	Jasper station	343
29.3	Wolford station	398
29.7	Summit	405
31.5	Bell station	389
33.0	Jelly station	375
35.4	Bellamy station	394
36.9	Hawkins station	392
38.3	Clark station	416
38.7	Summit	419
39.7	Fairfield station	376
44.7	Brockville, Grand Trunk station	283.6
44.9	" Can. Pac. station	282

Miles from Ottawa	CANADIAN PACIFIC RAILWAY—PRESCOTT BRANCH	Elevation above mean sea level
0.0	Ottawa, Sussex St. freight station.....	180
0.4	Rideau river, water, 168; rail.....	181
1.6	Montreal road crossing.....	186
2.9	New York and Ottawa junction, with main line.....	197.1
6.6	Chaudière junction, with line to Broad St. station.....	200
0.0	Ottawa, Broad St. station, junction with main line, 115.5 miles from Montreal.....	181.7
1.9	Rideau canal, water, 208; rail.....	216
2.6	Rideau river, high water, 190; low water, 180; rail.....	213
4.5	Chaudière junction, with spur line to Sussex St. freight station.....	272.2
9.0	Gloucester station.....	355.5
12.6	Manotick station.....	328.3
16.9	Bray station.....	297.6
20.4	Osgoode station.....	304.0
24.8	Sabourin ".....	286.8
25.6	Rideau brook, bed, 272; rail.....	278
29.0	Kemptville station.....	300.0
29.2	Beecher brook, water, 286; bed, 284; rail.....	297
30.8	Kempton, junction with Ontario and Quebec line, 107.9 miles from Montreal.....	332.8
35.0	Oxford station.....	354.5
38.8	Summit, ground, 1,100 ft. north, 366; rail.....	356
39.3	Groveton station.....	341
42.6	Spencerville station.....	318.5
43.3	South Nation river, water, 290; bed, 280; rail.....	307
46.4	Donville station.....	303
47.6	Summit.....	316
50.4	Prescott junction, with Grand Trunk Rv., main line, 112.51 miles from Montreal.....	310.9
51.7	Prescott station.....	258

Miles from Eganville Jcn.	CANADIAN PACIFIC RAILWAY—EGANVILLE BRANCH	
0.0	Eganville junction, with main line, 189.6 miles from Montreal. . .	405.0
3.3	Northcote station.....	399
9.5	Douglas station.....	418
10.3	Bonnechère river, water, 407; bed, 399; rail.....	424
13.5	Fourth Chute station.....	475
18.8	Eganville station.....	549

CANADIAN PACIFIC RAILWAY—LAKE ONTARIO SHORE LINE

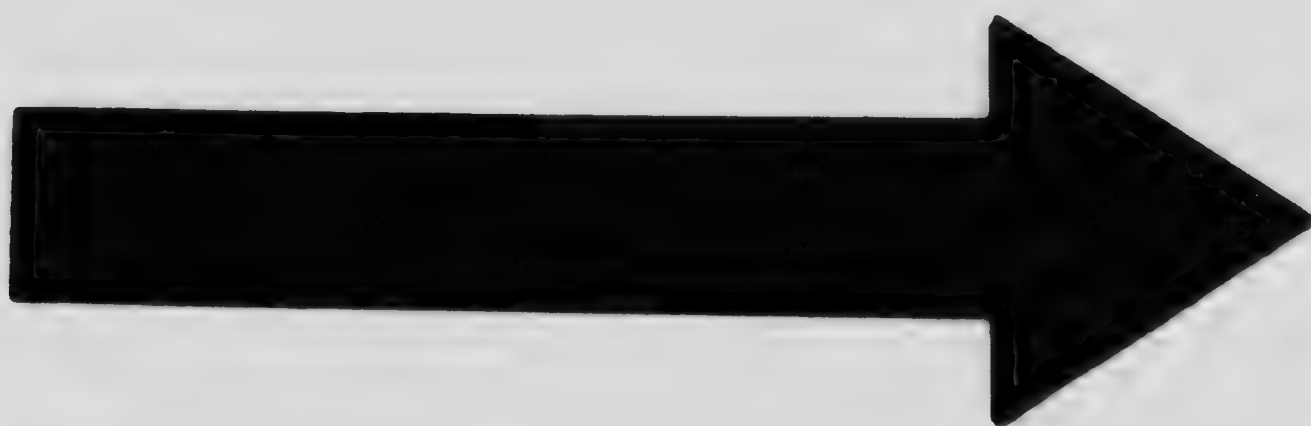
Miles from Glen Tay	Glen Tay to Agincourt	
0.0	Glen Tay, junction with Ontario and Quebec line 144.1 miles from Montreal.....	476
5.5	Elliott station.....	533
8.4	Christie Lake station.....	364
8.4	Christie lake, high water, 543; low water.....	542
10.8	Summit.....	588
11.6	Davern creek, rail.....	575
14.7	Bolingbroke station.....	600

CANADIAN PACIFIC RAILWAY

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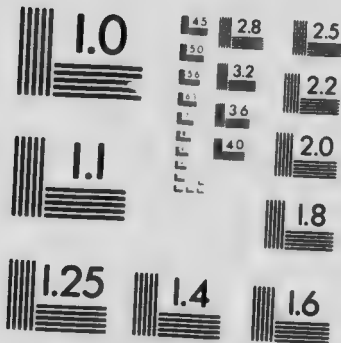
Miles from
Glen TayCANADIAN PACIFIC RAILWAY—LAKE ONTARIO
SHORE LINEElevation
above mean
sea level*Glen Tay to Agincourt*

13.6	Crow Lake station	616
18.8	Crow lake, high water, 579; ordinary water	578
23.5	Summit	671
24.0	Eagle Lake creek, water, 623; rail	662
25.1	Parham, junction with Kingston and Pembroke branch	650
31.5	Echo Lake station	602
32.0	Echo Lake, water	588
34.1	Clare lake, high water, 548; low water	540
36.7	Wilkinson station	552
43.7	Canadian Northern Ry. (Bay of Quinte Ry.) crossing, B. of Q. Ry., rail, 539; C.P. Ry., rail	515
45.5	Enterprise station	549
52.7	Roblin	450
53.9	Salmon river, high water, 427; low water, 424; rail	439
58.8	Kingsford station	461
63.8	Jonasdale	391
69.3	Grand Trunk Ry., main line, crossing, G. T. Ry., rail, 325; C. P. Ry. rail	349
71.3	Shannonville station	324
74.1	Point Anne Ry. crossing	268
76.6	Belle Isle station	258
76.7	Moir river, high water, 249; rail	258
82.2	Bayside station	299
87.0	Trenton station	295
87.8	Trent river, high water, 251; rail	298
88.0	Canadian Northern (Central Ontario) Ry. crossing, C. O. Ry., rail, 261; C. P. Ry., rail	304
91.4	Smithfield station	342
95.1	Canadian Northern Ry., Toronto and Ottawa, crossing	322
96.9	Brighton station	303
105.0	Colborne	284
111.8	Grafton	283
119.4	Cobourg	298
119.6	Cobourg brook, high water, 261; water, 256; rail	286
125.7	Port Hope station	305
126.3	Ganeska river, high water, 259; water, 251; rail	298
126.4	Grand Trunk Ry., Port Hope and Peterborough, crossing, G. T. Ry., rail, 280; C. P. Ry., rail	299
136.5	Newtonville station	388
140.6	Bondhead station	386
143.0	Newcastle station	347
143.7	Wilmot creek, water, 315; rail	344
148.8	Bowmanville station	369
149.1	Toronto and Eastern Ry. crossing	369
150.4	Bowmanville brook, high water, 324; water, 322; rail	370
158.7	Oshawa station	325
159.2	Oshawa brook, high water, 319; water, 311; rail	330
163.0	Toronto and Eastern Ry., crossing, T. & E. Ry., rail, 292; C. P. R. rail	309
163.3	Whitby station	300
163.3	Grand Trunk Ry., main line, crossing	301
166.5	Lyon creek, high water, 293; water, 290; rail	330
168.3	Audley station	391
170.6	Duffin creek, water, 353; rail	403
174.0	Dixie creek, high water, 367; water, 363; rail	448



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ALTITUDES IN CANADA

Miles from Glen Tay	CANADIAN PACIFIC RAILWAY—LAKE ONTARIO SHORE LINE	Elevation above mean sea level
<i>Glen Tay to Agincourt</i>		
174.5	Cherrywood station.	461
174.8	Canadian Northern Ry., Toronto and Ottawa, crossing.	459
178.5	Little Rouge river, high water, 444; water, 439; rail.	467
180.0	Rouge river, high water, 456; water, 452; rail.	502
183.3	Agincourt, junction with Ontario and Quebec line, 325.6 miles from Montreal.	563
 CANADIAN PACIFIC RAILWAY—KINGSTON AND PEMBROKE BRANCH		
Miles from Kingston	Lake Ontario, mean water (1871-1899)	45.8
0.0	Kingston station.	255
1.0	Grand Trunk Ry., main line, crossing, 173.3 miles from Montreal	288.3
1.9	Summit.	312
2.9	Brook, water, 254; rail.	266
3.5	Little Cataraqui river, water, 254; rail.	267
5.5	Summit.	372
6.0	Knight siding.	371
7.2	Collins brook, water, 284; rail.	302
10.2	Glenvale station.	419
14.1	Murvale station.	478
16.1	Mud brook, water, 409; rail.	415
17.4	Summit.	519
18.5	Harrowsmith, junction with Canadian Northern (Bay of Quinte) Ry.	491
21.4	Hartington station.	530
22.8	Napanee river, water, 447; rail.	455
24.9	Verona station.	458
28.2	Summit.	520
29.4	Godfrey, junction with Glendower Mines branch	493
33.0	Glendower Mines branch, end of track.	516
	Thirty-island lake, water.	503
29.6	Cold brook, water, 490; rail.	504
30.5	Summit.	575
32.2	Hinchinbrooke station.	560
32.4	St. Andrew brook, water, 558; rail.	566
34.6	Summit.	612
36.4	Harswell lake, water.	585
38.3	Parham, junction with Lake Ontario Shore line.	650
38.8	Eagle brook, water, 624; rail.	649
42.0	Oconto station.	673
43.5	St. George lake, water.	641
44.9	Summit.	689
46.3	Sharbot lake, water.	634
46.8	Sharbot Lake, junction with Ontario and Quebec line, 165.3 miles from Montreal.	645
47.1	Summit.	700
50.0	Oso station.	679
52.8	Bolton Brook siding.	686
55.4	Clarendon station.	764
55.8	Summit.	781
57.3	Robertsville station.	757

Miles from Kingston	CANADIAN PACIFIC RAILWAY—KINGSTON AND PEMBROKE BRANCH	Elevation above mean sea level
59.3	Mississippi station.....	687
60.5	Mississippi river, water, 643; rail.....	657
61.2	Snow Road station.....	697
66.5	Wilbur Mines, junction with branch to mine.....	836
67.8	Wilbur Mines branch, end of track.....	891
	Caldwell lake, water.....	886
67.2	Wilbur station.....	887
67.4	Summit, highest point on the line, rail.....	903
69.1	Lavant station.....	843
71.3	Folger station.....	817
73.1	South branch Clyde river, water, 661; rail.....	886
76.0	Clyde Forks station.....	609
76.5	Clyde river, water.....	606
77.9	Flower station.....	627
79.0	North branch Clyde river, water, 629; rail.....	634
80.1	Clyde lake, water.....	643
81.8	Summit.....	654
83.2	Mile lake, water, 612; rail.....	620
87.2	Barryvale station.....	533
88.2	Calabogie lake, high water, 505; low water.....	500
89.1	Calabogie station.....	515
90.4	Summit.....	572
91.4	Norway lake, water.....	539
92.9	Ashdod station.....	566
98.9	Opeongo station.....	502
102.1	Renfrew junction, with Grand Trunk Ry., Ottawa division, 189.0 miles from Alburgh junction.....	402.8
103.4	Renfrew, junction with main line, 185.8 miles from Montreal.....	415.8

Miles from Bethany Junc.	CANADIAN PACIFIC RAILWAY—PORT McNICOLL BRANCH	
0.0	Bethany junction, with Ontario and Quebec line, 276.3 miles from Montreal.....	852
2.3	Bethany station.....	863
6.3	Franklin station.....	826
12.9	Hillhead ".....	848
16.7	Lindsay junction, with Lindsay branch.....	837
17.5	Grand Trunk Ry., Belleville and Midland, crossing, G. T. Ry., rail, 858.1; C. P. Ry., rail.....	829.1
18.1	Lindsay station.....	831
19.9	Scugog river, water, 820; rail.....	858
20.0	Grand Trunk Ry., Haliburton branch, crossing, G. T. Ry., rail, 833; C. P. Ry., rail.....	861.5
22.0	Cambray station.....	894
27.1	Grasshill station.....	909
29.7	Hartley station.....	953
30.2	Summit.....	954
35.0	Balsam Lake station.....	900
38.1	Grand Trunk railway, Cobocok branch, crossing.....	852
38.9	Eldon station.....	845
43.9	Trent canal, water, 717; rail.....	764
44.4	Talbot station.....	756
46.9	Canadian Northern Ry., Toronto and Capreol, crossing.....	761
47.2	Brechin station.....	760

Miles from Bethany Junc.		CANADIAN PACIFIC RAILWAY—PORT McNICOLL BRANCH	Elevation above mean sea level
55.8	Uptergrove station.....		733
57.9	Atherley, Grand Trunk Ry., Toronto and North Bay, crossing....		727
58.4	Lakes Simcoe and Couchiching, water (Nov. 23, 1908), 717.5; (June 8, 1913), 718.6; flood (1912), 721.1; rail.....		727
60.6	Orillia station.....		724
62.7	Taft station.....		734
63.7	Summit.....		744
68.5	Uthoff station.....		671
74.6	Coldwater junction, with Toronto and Sudbury line.....		632.7
76.3	Coldwater station.....		595
79.4	Fesserton station.....		634
84.5	Tay station.....		665
88.4	Port McNicoll station.....		622
	Georgian bay, mean water.....		581.0
Miles from Burketon		CANADIAN PACIFIC RAILWAY—LINDSAY BRANCH	
0.0	Burketon, junction with Ontario and Quebec line, 291.9 miles from Montreal.....		1,056
5.9	Nestleton station.....		973
11.6	Janetville.....		869
14.8	Clabo.....		832
17.4	Ops station.....		829
20.8	Lindsay junction, with Port McNicoll branch.....		837
21.5	Grand Trunk Ry., Belleville and Midland, crossing, G.T.Ry., rail, 858.1; Can. Pac. Ry., rail.....		829.1
22.5	Lindsay station.....		831
25.6	Summit.....		916
26.8	Byrnell station.....		910
30.8	Dunsford station.....		889
34.7	Ancona Point station.....		817
38.2	Little Bob river, water, 805; rail.....		820
38.7	Bobcaygeon station.....		818
Miles from Hamilton		CANADIAN PACIFIC RAILWAY—HAMILTON AND GODERICH BRANCH	
0.0	Hamilton, Toronto, Hamilton and Buffalo Ry. station.....		327
2.7	Grant junction.....		296
7.3	Waterdown South station.....		706
8.1	Waterdown North station.....		782
13.6	Flamboro station.....		855
19.0	Guelph junction, with Ontario and Quebec line, 39.2 miles from Toronto.....		962
22.8	Moffat station.....		1,048
25.8	Corwhin station.....		1,129
26.9	Summit, rail.....		1,171
29.7	Arkell station.....		1,112
32.4	Speed river, bed, 1,009; rail.....		1,016
33.7	Speed river, bed 1,021; rail.....		1,041
33.8	Grand Trunk Ry., main line, crossing.....		1,040
34.3	Guelph station.....		1,052
35.5	Guelph Radial Ry., crossing.....		1,085
36.9	Grand Trunk Ry., Southampton branch, crossing.....		1,114
40.2	Weissenburg station.....		1,133
45.8	Grand river, high water, 1,067; low water, 1,062; rail.....		1,114

CANADIAN PACIFIC RAILWAY

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Miles from Hamilton	CANADIAN PACIFIC RAILWAY—HAMILTON AND GODERICH BRANCH	Elevation above mean sea level
46.4	West Montrose station.....	1,121
50.2	Elmira station.....	1,155
54.3	Wallenstein station.....	1,199
55.1	Conestoga river, high water, 1,158; low water, 1,148; rail.....	1,216
59.3	Linwood, junction with Listowel branch.....	1,290
64.9	Milbank station.....	1,246
65.1	Nith river, high water, 1,223; water, 1,217; rail.....	1,240
68.0	Milverton river, high water, 1,219; water, 1,212; rail.....	1,241
68.1	Grand Trunk Ry., Stratford and Port Dover branch, crossing, G. T. Ry., rail, 1,223; C.P. Ry., rail.....	1,257
69.0	Milverton station.....	1,260
77.7	West Monkton station.....	1,194
83.9	McNaught station.....	1,153
90.4	Walton station.....	1,146
97.4	Grand Trunk Ry., L. H. & B. branch, crossing, G. T. Ry., rail, 1,079; Can. Pac. Ry., rail.....	1,048
97.8	Blyth station.....	1,048
103.8	Auburn station.....	951
105.9	Maitland river, high water, 880; water, 867; rail.....	887
108.9	McGaw station.....	876
112.8	Meneset station.....	688
113.8	Maitland river, high water, 587; water, 577; rail.....	639
114.1	Grand Trunk Ry., Buffalo and Goderich, crossing, G. T. Ry., rail, 602; Can. Pac. Ry., rail.....	626
114.5	Goderich station.....	603
	Lake Huron, mean water.....	581.0

Miles from Woodstock	CANADIAN PACIFIC RAILWAY—INGERSOLL BRANCH	
0.0	Woodstock, junction with Ontario and Quebec line, 87.9 miles from Toronto.....	948
0.8	Grand Trunk Ry., Niagara Falls and Windsor, crossing.....	929.4
4.2	Beachville station.....	920
8.9	Ingersoll, junction with Port Burwell branch.....	880
14.1	Putnam station.....	886
18.8	Harrietsville station.....	952
19.5	Summit.....	961
24.8	Belmont station.....	846
27.9	O'Dell station.....	817
32.0	Wabash transfer.....	790
32.3	Pere Marquette (London and Port Stanley) R. R. crossing.....	785
33.6	St. Thomas, junction with Michigan Central R. R.....	765

Miles from Ingersoll	CANADIAN PACIFIC RAILWAY—PORT BURWELL BRANCH	
0.0	Ingersoll, junction with Ingersoll branch, 8.9 miles from Wood- stock.....	880
4.	Salford station.....	938
7	Mount Elgin station.....	908
12.2	Ostrander.....	886
14.6	Michigan Central R.R., main line, crossing, M.C.R.R., rail, 803; Can. Pac. Ry., rail.....	781
15.4	Tillsonburg station.....	781
15.4	Grand Trunk Ry., Brantford and Tillsonburg branch, crossing ..	784

Miles from Ingersoll	CANADIAN PACIFIC RAILWAY—PORT BURWELL BRANCH	Elevation above mean sea level
16.2	Big Otter creek, water (Oct. 5, 1905), 689; high water, 696; rail..	745
17.7	Grand Trunk Ry., Loop line, crossing	773
18.0	Loop Line transfer	773
22.0	Eden station	785
24.0	Little Otter creek, water, 641; rail	728
25.6	Straffordville station	750
28.7	Griffin "	709
30.3	Suth-Innes "	675
31.0	Teak creek, water, 592; rail	650
31.6	Vienna station	650
33.4	Port Burwell station	583
	Lake Erie, water	572.3
Miles from Ingersoll North	CANADIAN PACIFIC RAILWAY—ST. MARYS BRANCH	
0.0	Ingersoll North station	889
4.3	Ingersoll junction, with Ontario and Quebec line, 95.0 miles from Toronto	991
7.8	Thames river, rail	980
9.3	Embré station	1,032
12.1	Bennington station	1,006
13.5	McConkey "	1,151
16.3	Lakeside "	1,217
19.1	Uniondale "	1,109
24.0	Grand Trunk Ry., main line, crossing, G. T. Ry., rail, 1,039; C. P. Ry., rail	1,015
25.0	St. Marys station	993
Miles from Saugeen	CANADIAN PACIFIC RAILWAY—WALKERTON BRANCH	
0.0	Saugeen, junction with Owen Sound branch, 56.2 miles from Bolton	1,569.0
3.2	Summit, highest point between Saugeen and Walkerton	1,590
5.5	Priceville station	1,521
10.0	Glen "	1,429
11.9	McWilliams station	1,338
16.3	Saugeen river, high water, 1,117; water, 1,112; rail	1,133
16.5	Durham station	1,126
17.4	Saugeen river, high water, 1,094; water, 1,083; rail	1,102
23.2	Allan Park station	919
27.5	Hanover station	906
27.7	Saugeen river, extreme high water, 870; ordinary high water, 866; water (July 22, 1907), 861; rail	907
27.8	Grand Trunk Ry., Owen Sound branch, crossing, G.T. Ry., rail, 883; C.P. Ry., rail	909
31.1	Maple Hill station	902
37.6	Saugeen river, high water, 801; water, 793; rail	809
37.6	Walkerton station	805
Miles from Linwood	CANADIAN PACIFIC RAILWAY—LISTOWEL BRANCH	
0.0	Linwood, junction with Hamilton and Goderich branch	1,290
4.4	Dorking station	1,301
9.1	Tralee station	1,298
16.2	Listowel station	1,250

CANADIAN PACIFIC RAILWAY

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Miles from
Cataract

CANADIAN PACIFIC RAILWAY—ELORA BRANCH

Elevation
above mean
sea level

0.0	Cataract, junction with Orangeville branch.....	1,255
4.5	Erin station.....	1,295
8.2	Hillsburg station.....	1,419
12.7	Orton station.....	1,453
15.0	Summit.....	1,535
17.6	Belwood station.....	1,420
19.0	Grand river, bed, 1,357; rail.....	1,373
20.4	Spiers station.....	1,397
24.6	Grand Trunk Ry., Southampton branch, crossing.....	1,366
24.9	Fergus station.....	1,261
27.3	Elora station.....	1,275

Miles from
BoltonCANADIAN PACIFIC RAILWAY—OWEN SOUND
BRANCH

0.0	Bolton, junction with Toronto and Sudbury line.....	847.7
0.8	Toronto and Sudbury switch.....	856
5.9	Mono Road station.....	976.2
7.5	Grand Trunk Ry., Hamilton and Allandale branch, crossing, G. T. Ry., rail, 951; C. P. Ry., rail.....	973
14.4	Caledon station.....	1,359.0
19.1	Melville, junction with Orangeville branch.....	1,328.4
21.9	Orangeville station.....	1,397.5
25.9	Fraxa, junction with Teeswater branch.....	1,617.7
29.0	Laurel station.....	1,611.3
33.4	Crombie station.....	1,604.7
37.9	Shelburne station.....	1,629.0
41.4	Melancthon station.....	1,665.3
45.2	Corbetton station.....	1,665.3
46.5	Grand river, bed, 1,652; rail.....	1,666
49.2	Dundalk station.....	1,704.9
49.5	Summit.....	1,711
54.2	Proton station.....	1,586.2
56.2	Saugeen river, bed, 1,555; rail.....	1,569
56.2	Saugeen, junction with Walkerton branch.....	1,569.0
59.6	Flesherton station.....	1,559.2
66.0	Markdale station.....	1,361.0
71.2	Berkeley station.....	1,332.2
75.4	Holland Centre station.....	1,215.2
78.8	Cement Works switch.....	1,073
82.1	East branch Sydenham river, bed, 941; rail.....	950
82.3	Chatsworth station.....	947.4
83.5	Sydenham river, bed, 926; rail.....	941
87.4	Rockford station.....	917.1
94.8	Owen Sound station.....	584.6
	Georgian bay, mean water.....	581.3

Miles from
Streetsville
Junc.CANADIAN PACIFIC RAILWAY—ORANGEVILLE
BRANCH

0.0	Streetsville Junction, with Ontario and Quebec line, 21.6 miles from Toronto.....	551
1.9	Meadowvale station.....	564
3.1	Credit river, bed, 549; rail.....	562
4.2	Churchville station.....	605
7.4	Brampton station.....	722
7.6	Grand Trunk Ry., main line, crossing.....	713

Miles from
Streetsville
Junction

CANADIAN PACIFIC RAILWAY—ORANGEVILLE BRANCH

Elevation
above mean
sea level

12.1	Snelgrove station.....	841
17.0	Cheltenham station.....	939
19.6	Inglewood, Grand Trunk Ry., Hamilton and Allandale, crossing..	970
23.8	Credit river, bed, 1,005; rail.....	1,078
23.9	Forks of Credit station.....	1,079
26.5	Cataract, junction with Elora branch.....	1,255
29.6	Alton station.....	1,317
31.6	Melville, junction with Owen Sound branch, 19.1 miles from Bolton.....	1,328.4

Miles from
Fraxa

CANADIAN PACIFIC RAILWAY—TEESWATER BRANCH

0.0	Fraxa, junction with Owen Sound branch, 25.9 miles from Bolton.	1,617.7
3.6	Amaranth station.....	1,546
5.9	Waldemar station.....	1,496
6.3	Grand river, bed, 1,450; rail.....	1,479
8.1	Grand Valley station.....	1,543
11.5	Summit.....	1,584
19.5	Arthur station.....	1,526
26.4	Kenilworth station.....	1,487
33.0	Mount Forest tank.....	1,378
33.6	Saugeen river, bed, 1,303; rail.....	1,346
34.2	Mount Forest station.....	1,346
37.3	Grand Trunk Ry., Durham branch, crossing.....	1,286
41.7	Harriaton station.....	1,248
41.9	Grand Trunk Ry., Owen Sound branch, crossing.....	1,247.6
50.1	Fordwich station.....	1,197
53.0	Maitland river, bed, 1,106; rail.....	1,128
54.0	Gorrie station.....	1,134
56.0	Wroxeter station.....	1,107
62.4	Wingham junction, with Wingham spur.....	1,071
66.5	Grand Trunk Ry., Kincardine branch, crossing, G. T. Ry., rail, 1,041; C. P. Ry., rail.....	1,017
66.8	Wingham station.....	1,023
62.8	Glenannan station.....	1,078
67.8	Teeswater station.....	1,021

Miles from
Toronto

CANADIAN PACIFIC RAILWAY—TORONTO AND SUDBURY

0.0	Toronto, Union station.....	254
4.7	West Toronto station.....	393
7.7	Tremor station.....	414
8.5	Weston ".....	428.8
12.5	Emery ".....	510.3
15.2	Humber river, bed, 444; rail.....	502
16.5	Woodbridge station.....	554.0
18.8	Elder ".....	630.3
21.4	Kleinburg ".....	712.6
26.3	Bolton, junction with Owen Sound branch.....	847.7
27.1	Owen Sound Branch switch.....	856
30.7	Humber station.....	881

Miles from Toronto	CANADIAN PACIFIC RAILWAY—TORONTO AND SUDBURY	Elevation above mean sea level
32.7	Humber river, bed, 825; rail.	907
33.5	Cedar Mills station.	915.9
35.5	Summit, rail.	942
36.0	Palgrave station.	938.3
40.1	Tottenham station.	836.9
42.6	Grand Trunk Ry. crossing, G. T. Ry., Hamilton and Allandale, rail, 752; C. P. Ry., rail	779
43.6	Beeton station.	763.8
47.6	Nottawasaga river, bed, 711; rail.	731
49.3	Grand Trunk Ry., Collingwood branch, crossing	725.5
49.8	Alliston station.	727.4
50.0	Boyer river, bed, 685; rail.	730
56.5	Baxter station.	725.2
62.7	Grand Trunk Ry., Meaford branch, crossing	703.3
63.6	Utopia station.	716.8
65.2	Grand Trunk Ry., Penetanguishene branch, crossing	735.0
68.1	Mac station.	752.1
71.9	Midhurst station.	764.5
72.7	Willow creek, water, 676; rail.	776
78.6	Craighurst station.	836.0
78.8	Summit, rail.	838
85.1	Coldwater river, bed, 703; rail.	768
86.4	Carley station.	753.1
91.7	Eady station.	680.6
95.0	Coldwater junction, with Port McNicoll branch, 74.6 miles from Bethany	632.7
96.1	Grand Trunk Ry., Belleville and Midland, crossing.	619.1*
96.5	Coldwater station.	594.9
99.9	Lovering station.	591.6
100.3	North river, high water, 586; bed, 574; rail.	590
103.2	Moredolphton station (closed).	620
104.0	Black river, water, 624; bed, 621; rail.	630
107.8	Buckskin station.	678.3
108.1	Severn Falls station.	687.1
108.6	Severn river, high water, 646; low water, 643; rail.	687
111.9	Shaw creek, high water, 670; low water, 666; rail.	706
114.1	Black Muskosh river, high water, 697; low water, 694; rail.	735
117.7	Black station.	746.5
117.7	Black lake, high water, 742; low water.	740
117.7	Black lake, high water, 749; low water.	747
117.7	Muskoka river, high water, 729; water, 725; rail.	754
117.7	Muskoka, high water, 741; navigation level.	739.5
117.7	Muskoka, summer station, 754.1; winter station.	755.4
123.9	Roderick station.	794
131.6	Muskoka station.	790
134.0	Summit.	823
135.7	Barnesdale station.	810
136.6	Gordon Bay station.	811
141.8	Brignall station.	797
143.4	Blackstone river, bed, 736; rail.	763
145.1	Black Road station.	755
148.1	Otter lake, water.	681
149.2	Dockmure station.	720
150.3	Richmond lake, water.	680
151.5	Grand Trunk Ry., Ottawa division, crossing, G.T. Ry., rail, 659; C. P. Ry., rail.	684

*By levels of Department of Public Works, 619.3

Miles from Toronto	CANADIAN PACIFIC RAILWAY--TORONTO AND SUDBURY	Elevation above mean sea level
151.5	Boyne river, water, 647; rail.	686
153.9	Seguin river, water, 600; rail.	686
154.6	Parry Sound station.	686
156.4	Summit.	702
161.4	Nobel station.	671
164.0	McFarland creek, bed, 662; rail.	687
166.8	Carling station.	698
172.5	Shawanaga station.	705
176.5	Shawanaga river, bed, 647; rail.	688
180.1	Pointe au Baril station.	643
186.8	Naiscoot station.	612
188.3	Naiscootyong river, bed, 570; rail.	613
193.7	Byng Inlet station.	625
194.8	Maganetawan river, water, 586; rail.	603
196.1	Dunlop station.	597
199.3	Little Still river, water, 599; rail.	604
199.6	Still station.	608
200.6	Bekanon station.	619
205.9	Canadian Northern Ry., Toronto and Capreol, crossing, C. N. Ry., rail, 593; C. P. Ry., rail.	620
205.9	Key river, water, 609; rail.	618
206.4	Pakesley station.	646
209.9	Outlet of Pakeshkag lake, bed, 794; rail.	636
210.8	Pickerel station.	650
212.5	Pickerel Landing station.	625
215.5	French river, high water, 548; low water, 545; rail.	630
215.9	French station.	630
216.0	Depression.	628
218.1	Bigwood station.	635
222.1	Rutter station.	683
227.5	Delamere station.	655
229.6	Depression.	632
232.1	Paget station.	689
238.5	Burwash station.	730
243.7	Canadian Northern Ry., Toronto and Capreol, crossing.	742
244.6	Wanup station.	744
248.7	Wanapitei river, water, 728; rail.	743
249.1	Dill station.	787
253.3	Romford, junction with main line, 433.3 miles from Montreal.	846
CANADIAN PACIFIC RAILWAY--SAULT STE. MARIE BRANCH		
Miles from Sudbury		
0.0	Sudbury, junction with main line, 439.3 miles from Montreal.	857
4.5	Copper Cliff station.	858
5.9	Summit, rail.	878
9.8	Brook, bed, 779; rail.	797
11.1	Naughton station.	803
18.3	Whitefish station.	808
21.0	Summit, rail.	842
21.9	Victoria Mine station.	824
25.1	Worthington station.	772
28.3	Turbine station.	707
32.6	Nairn station.	718
35.7	Spanish river, water, 638; rail.	674
41.8	Espanola, junction with Algoma Eastern railway.	685
48.3	Webbwood station.	663

CANADIAN PACIFIC RAILWAY

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Miles from Sudbury	CANADIAN PACIFIC RAILWAY—SAULT STE. MARIE BRANCH	Elevation above mean sea level
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49.1	Birch brook, bed, 583; rail	647
58.0	Sable river, bed, 573; rail	637
58.4	Massey station	638
65.7	Summit, rail	688
66.3	Walford station	669
70.8	Depression, rail	588
71.6	Spanish station	609
77.4	Cutler station	612
78.3	Kenabutch station	644
80.2	Summit	693
82.5	Serpent river, water, 581; rail	594
	Lake Huron, high water, 583.26; low water, 578.52; mean water (1871-1895)	581.0
83.4	Serpent station	588
87.4	Spragge station	601
89.2	Summit	670
95.1	Algoma station	604
102.4	Blind River station	601
106.2	Mississagi river, extreme high water, 590; low water, 582; rail	605
112.8	Dean Lake station	628
121.9	Dayton station	605
126.7	Livingston station	646
130.8	Thessalon, junction with Thessalon Northern Ry.	656
133.1	Thessalon river, water, 583; rail	598
133.2	Sherwood station	598
135.0	Nestorville station	624
143.0	Bruce station	681
143.1	Bruce Mines and Algoma Ry. crossing	681
149.4	Portlock station	594
151.2	Desbarats station	595
158.1	Isbester station	601
160.0	Bear river, water, 581; rail	593
161.0	Bar River station	594
164.3	Ekoba station	590
170.7	Garden station	606
179.3	Sault Ste. Marie, Ont., station	634
180.5	River St. Mary, high water, in canal, 604.3; low water, 600.1; mean water, 601.0; rail	612
183.2	Sault Ste. Marie, Mich., station	615

CANADIAN PACIFIC RAILWAY—HUTTON BRANCH
(Projected)

Miles from Sudbury		
0.0	Sudbury, junction with main line, 439.2 miles west of Montreal	85
1.0	Junction brook, bed, 832; grade	858
6.9	Brook, bed, 937; grade	940
8.6	Garson lake, water, 943; grade	950
10.4	Brook, bed, 942; grade	951
15.0	Brook, bed, 955; grade	980
18.7	Bay of Long lake, bed, 1,013; grade	1,021
20.5	Beaver lake, bed, 1,015; grade	1,028
25.5	Vermilion river, bed, 1,009; grade	1,074
30.0	Hutton mines	1,150

Miles from Dymont	CANADIAN PACIFIC RAILWAY—DYMENT BRANCH	Elevation above mean sea level
0.0	Dymont station, 1,177.7 miles west of Montreal.....	1,350
4.3	Little Wabigoon river, water, 1,228; rail.....	1,237
7.0	Ottawine station.....	1,286
Miles from Raleigh	CANADIAN PACIFIC RAILWAY—RALEIGH BRANCH	
0.0	Raleigh, west leg of wye, main line, 1,158.6 miles west of Montreal.....	1,439
4.3	Brook, bed 1,483; grade.....	1,489
6.4	Summit.....	1,520
7.1	Brook, bed 1,474; grade.....	1,490
13.3	Brook, bed 1,397; grade.....	1,403
18.5	End of line near Bounding lake.....	1,324
Miles from Molson	CANADIAN PACIFIC RAILWAY—LAC DU BONNET BRANCH	
0.0	Molson, junction with main line, 1,377.6 miles from Montreal...	883
4.9	Buchan station.....	845
10.9	Milner station.....	913
21.5	Lac du Bonnet station.....	850
Miles from Winnipeg	CANADIAN PACIFIC RAILWAY—EMERSON BRANCH	
0.0	Winnipeg station.....	766
1.4	Whittier junction.....	764
2.0	St. Boniface station.....	759.5
3.4	Paddington, junction with Canadian Northern Ry.....	761.8
9.0	Seine river, low water, 751; high water, 761; rail.....	765.3
10.7	Grande Pointe station.....	769.7
16.4	Willard station.....	771.9
22.4	Niverville station.....	776.8
29.7	Rat river, low water, 753; high water, 764; rail.....	779.8
29.9	Otterburne station.....	781.8
33.6	Carey station.....	785.8
39.3	Dufrost station.....	794.0
47.4	Arnaud station.....	796.0
55.0	Roseau river, ice (1880), 763; high water (June 1, 1880), 77 rail..	788.0
55.2	Dominion City station.....	788.0
59.9	Riordan station.....	793.4
63.0	Joe river, low water, 757; high water, 772; rail.....	790.2
65.2	Emerson station.....	792.7
65.5	Canadian Northern Ry., Ridgeville branch, crossing.....	792.4*
Miles from Winnipeg	CANADIAN PACIFIC RAILWAY—WINNIPEG BEACH BRANCH	
0.0	Winnipeg station.....	766
1.9	Rugby junction.....	764
4.6	Christie siding.....	762.4
8.3	Middlechurch station.....	758.2
12.6	Parkview ".....	759.8
15.9	Victoria Park ".....	764.0
19.5	Fort Garry ".....	753.2
22.9	Bradbury ".....	744

*By levels of Geodetic Survey, 792.8

CANADIAN PACIFIC RAILWAY

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Miles from Winnipeg	CANADIAN PACIFIC RAILWAY—WINNIPEG BEACH BRANCH	Elevation above mean sea level
24.0	Selkirk, zero of gauge on wharf, 709.7; station.....	739
30.9	Clandebye station.....	742.0
35.1	St. Louis station.....	731.8
38.6	Netley station.....	730.4
42.0	Robinson spur.....	728.7
43.0	Summit.....	735
44.8	Matlock station.....	727.8
45.8	Whytewold station.....	727.0
46.9	Ponemah station.....	728.3
48.9	Winnipeg Beach station.....	727.5
50.0	Winnipeg Beach, flooring of Government wharf, 720.4; zero of gauge, 710.5; lake Winnipeg, water (Sept. 12, 1911).....	713.4
50.1	Boundary Park station.....	739
53.4	Husavick station.....	734
58.4	Gimli station.....	728
64.0	Faxa station.....	748
70.4	Arnes station.....	741
77.9	Jellicoe station.....	743
83.8	Riverton station.....	723

Miles from Winnipeg	CANADIAN PACIFIC RAILWAY—ARBORG BRANCH	
0.0	Winnipeg station.....	766
1.9	Rugby junction with main line.....	764
8.3	Orpa station.....	764
10.9	Airdale station.....	773
13.4	Stony Mountain station.....	775
16.3	Rockwood station.....	781
20.1	Stonewall station.....	829
24.8	Lait station.....	814
27.9	Jackfish brook, bed, 805; rail.....	816
29.6	Balmoral station.....	834
34.0	Rock spur.....	855
34.9	Gunton station.....	846
39.6	Teulon station.....	862
44.3	Wood spur.....	878
47.7	Komarino station.....	864
53.4	Malonton station.....	839
57.8	Kreuzburg station.....	842
63.2	Meleb station.....	840
68.6	Rembrandt station.....	820
71.8	Silver station.....	781
72.6	Scott station.....	760
76.3	Arborg station.....	746

Miles from Winnipeg	CANADIAN PACIFIC RAILWAY—LA RIVIERE BRANCH	
0.0	Winnipeg station.....	766
1.9	Rugby, junction with main line.....	764
5.0	Assiniboine river, high water, 764; low water, 734; rail.....	770
6.9	St. James station.....	762
7.0	Grand Trunk Pacific and Canadian Northern Rys. crossing.....	766
11.6	Fort Whyte station.....	769
18.2	La Salle river, high water, 748; low water, 740; rail.....	775

Miles from Winnipeg	CANADIAN PACIFIC RAILWAY—LA RIVIERE BRANCH	Elevation above mean sea level
18.3	La Salle station.....	775
24.4	Selborne station.....	781
29.9	Osborne station.....	782
35.7	McTavish station.....	782
41.7	Morris river, high water, 749; low water, 745; rail.....	779
42.6	Morris station.....	778
42.9	Canadian Northern Ry., Miami branch, crossing.....	779
49.0	Crossing Principal meridian.....	789
49.9	De Wet station.....	791
56.1	Rosenfeld, junction with Gretna branch.....	798
61.3	Horndean station.....	812
65.3	Great Northern Ry., Portage la Prairie branch, crossing.....	834.9
65.7	Plum Coulée station.....	835.8
65.9	Buffalo lake, water.....	819
73.8	Winkler station.....	891.2
80.7	Great Northern Ry., Morden branch, crossing.....	980.2
81.2	Morden station.....	991.5
81.9	Cheval tank.....	1,013
87.8	Thornhill station.....	1,314.7
94.5	Darlingford station.....	1,587.6
97.3	Rudyard, junction with Kaleida branch.....	1,575
103.7	Kaleida station.....	1,585
100.6	Summit, rail.....	1,622
102.2	Manitou station.....	1,589.7
105.4	Binney station.....	1,556
105.8	Top of bluff, east bank, Pembina river.....	1,560
112.9	La Rivière station.....	1,323.9
114.2	Pembina river, water, 1,290; rail.....	1,307
120.4	Wood Bay, junction with Snowflake branch.....	1,547.3
125.3	Pilot Mound station.....	1,550.6
126.0	Summit, rail.....	1,557
129.9	Crystal City station.....	1,511.0
130.2	Crystal brook, water, 1,470; rail.....	1,502
133.1	Clearwater station.....	1,496.1
133.8	Clearwater brook (Cypress or Long river), high water, 1,433; rail..	1,497
141.6	Mather station.....	1,524.5
147.5	Badger brook, water, 1,474; high water, 1,497; rail.....	1,514
148.4	Cartwright station.....	1,529.0
155.2	Canadian Northern Ry., Wakopa branch, crossing.....	1,543.7
155.7	Holmfield station.....	1,549.4
156.2	White-mud river (Long river), water, 1,539; rail.....	1,549
163.3	Killarney station.....	1,624
170.2	Little Pembina river, water, 1,603; bed, 1,601; high water, 1,612; rail.....	1,643
170.6	Rhodes station.....	1,641
175.1	Ninga station.....	1,652
182.7	Boissevain, junction with Boissevain branch.....	1,681.2
183.0	Great Northern Ry., Brandon branch, crossing.....	1,676.6
187.9	Cadzow station.....	1,648
193.2	Whitewater station.....	1,656.5
194.8	Whitewater lake, high water, 1,635; low water.....	1,630
198.2	Naples station.....	1,638.6
202.8	Deloraine, junction with Lyleton branch.....	1,642.4
207.9	Leighton station.....	1,593
212.9	Medora station.....	1,503.4
221.4	Napinka, junction with Souris branch.....	1,463.1

CANADIAN PACIFIC RAILWAY

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Miles from Rosenfeld	CANADIAN PACIFIC RAILWAY—GRETNA BRANCH	Elevation above mean sea level
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0.0	Rosenfeld, junction with La Rivière branch	798
6.8	Altona station	813
13.7	Gretna station	831
13.9	International boundary	831

Miles from Rosenfeld	CANADIAN PACIFIC RAILWAY—ROSENFELD AND EMERSON LINE (<i>Abandoned</i>)
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0.0	Rosenfeld, junction with La Rivière branch	798
19.3	West Lynne station	793
20.8	Emerson, junction with Emerson branch	792.7

Miles from Wood Bay	CANADIAN PACIFIC RAILWAY—SNOWFLAKE BRANCH
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0.0	Wood Bay, junction with La Rivière branch, 120.4 miles from Win- nipeg	1,547.3
4.4	Harbour station	1,566
9.8	Purves station	1,575
16.2	Snowflake, junction with Fallison branch	1,561
20.5	Herb station	1,581
26.0	Fallison station	1,557
19.0	Sherlock tank	1,542
25.9	Mowbray station	1,544
32.4	Windygates station	1,560

Miles from Deloraine	CANADIAN PACIFIC RAILWAY—LYLETON BRANCH
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0.0	Deloraine, junction with La Rivière branch, 202.8 miles from Win- nipeg	1,642.4
8.5	Goodlands station	1,651.5
12.6	Cranmer station	1,571
17.4	Waskada station	1,549
22.1	Dalny station	1,512
28.2	Coulter station	1,480
29.3	Biette tank	1,489
32.4	Cameron station	1,493
37.4	Lyleton station	1,510

Projected Extension

42.2	Brook, bed, 1,527; grade	1,530
44.9	Line between ranges 29 and 30, grade	1,554
50.9	Line between ranges 30 and 31, grade	1,629
54.0	Antler brook (end of profile) bed, 1,589; water, 1,594; grade	1,626

Miles from Winnipeg	CANADIAN PACIFIC RAILWAY—SOUTHWESTERN BRANCH
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0.0	Winnipeg station	766
1.9	Rugby, junction with main line	764
6.8	Murray Park station	788
7.5	Sturgeon brook, bed, 760; low water, 761; rail	779
13.3	Headingly station	785
13.9	Assiniboine river, extreme high water, 768; low water, 755; rail	783
15.1	Grand Trunk Pacific Ry., main line, crossing	785

Miles from Winnipeg	CANADIAN PACIFIC RAILWAY—SOUTHWESTERN BRANCH	Elevation above mean sea level
16.1	Canadian Northern Ry., main line, crossing	785
20.4	Springstein station	786
26.0	La Salle river, high water, 780; low water, 772; bed, 762; rail	787
26.7	Starbuck station	787
34.5	Fannystelle "	799
40.7	Culross	812
45.3	Elm Creek, junction with Carman branch	832
48.0	Gopher tank	878
50.2	Great Northern Ry., Portage la Prairie branch, crossing	906
54.5	Haywood station	957
61.0	St. Claude station	1,007
68.5	Morris river, low water, 1,036; rail	1,050
70.1	Rathwell station	1,071
77.0	Treherne station	1,211
77.8	Morris river, low water, 1,166; bed, 1,164; rail	1,222
85.5	Holland station	1,236
86.1	Badger tank	1,237
90.0	Landseer station	1,246
95.6	Cypress River station	1,231
95.9	Cypress river, low water, 1,214; bed, 1,208; rail	1,223
104.6	Glenboro station	1,230
112.3	Stockton "	1,189
113.4	Water tank	1,189
117.4	Chaucer station	1,180
118.3	Souris river, low water, 1,113; rail	1,169
120.1	Treesbank station	1,206
122.7	Banting "	1,236
125.9	Methven "	1,284
127.5	Canadian Northern Ry., Wawanesa branch, crossing	1,315
131.8	Nesbitt station	1,408
137.1	Summit	1,512
140.2	Carroll station	1,475
142.9	Great Northern Ry., Brandon branch, crossing	1,502
145.3	Newstead station	1,485
150.6	Souris, junction with Souris branch	1,406
	Souris river at Souris	1,169

Miles from Elm Creek	CANADIAN PACIFIC RAILWAY—CARMAN BRANCH	
0.0	Elm Creek, junction with Southwestern branch, 45.3 miles from Winnipeg	832
5.9	Barnsley station	855
12.2	Carman station	870
	Morris river at Carman, high water, 852; low water	841

Miles from McGregor	CANADIAN PACIFIC RAILWAY—VARCOE BRANCH	
0.0	McGregor, junction with main line, 1,493.6 miles from Montreal	961
0.5	Junction switch	963
3.6	Grand Trunk Pacific Ry., main line, crossing	968
6.2	Squirrel brook, bed, 964; rail	973
6.8	Hugo station	973
11.5	Pine Creek station	990
17.8	Edrans station	1,073

CANADIAN PACIFIC RAILWAY

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Miles from
McGregorCANADIAN PACIFIC RAILWAY—VARCOE
BRANCHElevation
above mean
sea level

27.2	Wellwood station.....	1,290
30.1	Canadian Northern Ry., Carberry branch, crossing	1,287
33.9	Oberon station.....	1,278
37.4	Brookdale station.....	1,279
47.5	Moorepark station.....	1,539
56.0	Varcoe, junction with Rapid City branch..	1,734

Miles from
MinnedosaCANADIAN PACIFIC RAILWAY—RAPID CITY
BRANCH

0.0	Minnedosa , junction with Portage la Prairie and Wetaskiwin line, 78.6 miles from Portage la Prairie.....	1,675
0.8	Summit.....	1,685
1.7	Little Saskatchewan river, 1st crossing, bed, 1,643; water, 1645; rail	1,659
8.6	Riverdale station.....	1,638
14.0	Canadian Northern Ry., Rapid City branch, crossing, C. N. Ry., rail, 1,618; C. P. Ry., rail.....	1,588
14.2	Little Saskatchewan river, 2nd crossing, bed, 1,569; water, 1,571; rail.....	1,582
15.5	Rapid City station.....	1,582
18.3	Gautier, junction with Miniota branch.....	1,561
18.3	Brook, bed, 1,545; water, 1,549; rail..	1,555
24.5	Summit.....	1,814
27.5	Varcoe, junction with Varcoe branch.....	1,734
32.8	Grand Trunk Pacific Ry., main line, crossing...	1,520
34.9	Forrest, junction with Lenore branch.....	1,435
41.0	Kinshella tank.....	1,300
41.8	Asylum spur.....	1,308
45.8	Chater, junction with main line, 1,543.2 miles from Montreal..	1,219

Miles from
ForrestCANADIAN PACIFIC RAILWAY—LENORE
BRANCH

0.0	Forrest , junction with Rapid City branch.....	1,435
5.5	Summit.....	1,480
6.9	Carnegie station.....	1,459
10.9	Pendennis station.....	1,437
16.8	Little Saskatchewan river, bed, 1,464; water, 1,468; rail.....	1,497
18.4	Summit.....	1,564
19.0	Wheatland station.....	1,558
20.5	Brook, bed, 1,500; rail.....	1,537
20.7	Ward tank.....	1,542
23.5	Alloway station.....	1,531
24.2	Oak river, bed, 1,469; water, 1,480; rail.....	1,510
25.0	Summit.....	1,532
27.4	Bradwardine station.....	1,481
27.8	Brook, bed, 1,427; water, 1,434; rail....	1,469
30.4	Harding station.....	1,464
33.6	Brook, bed, 1,430; water, 1,434; rail..	1,473
34.0	Kenton station.....	1,484
34.5	Ferguson brook, bed, 1,467; rail.....	1,487
37.7	Blossom station.....	1,540
40.9	Lenore station.....	1,508

Miles from
GautierCANADIAN PACIFIC RAILWAY—MINIOTA
BRANCHElevation
above mean
sea level

0.0	Gautier, junction with Rapid City branch	1,561
1.7	Brook, bed, 1,580; water (1904), 1,583; rail	1,589
4.9	Pettapiece station	1,701
5.0	Summit, rail	1,702
7.0	Depression, ground, 1,656; rail	1,664
9.5	Floors station	1,735
11.5	Summit	1,739
13.9	Oak river, high water, 1,685; rail	1,719
15.6	Oak River station	1,718
19.4	Pitlochry station	1,708
21.5	Brook, high water, 1,687; water, 1,678; rail	1,692
23.6	Hamiota station	1,703
24.5	Summit	1,713
28.0	Chumah station	1,689
32.4	Crandell station	1,627
37.1	Grand Trunk Pacific Ry., main line, crossing, G. T. P. Ry., rail, 1,562; C. P. Ry., rail	1,536
37.2	Arrow river, high water, 1,531; rail	1,536
37.6	Arrow River station	1,534
43.8	Miniota station	1,509

Miles from
Kemnay

CANADIAN PACIFIC RAILWAY—SOURIS BRANCH

0.0	Kemnay, junction with main line, 1,556.9 miles west of Montreal	1,370
4.0	Canadian Northern Ry. crossing	1,396
5.4	Rattray station	1,383
8.3	Beresford station	1,419
11.3	Summit	1,463
11.8	Congreve station	1,455
16.3	Souris, junction with Southwestern branch	1,406
16.8	Plum brook, water, 1,373; bed, 1,370; rail	1,395
18.7	Summit	1,431
21.5	Schwitzer, junction with Schwitzer and Regina branch	1,417
23.3	Page station	1,396
24.0	Souris river, water, 1,361; bed, 1,359; rail	1,396
25.7	Monteith station	1,401
32.3	Hartney station	1,427
32.5	Canadian Northern Ry., Winnipeg and Virden, crossing	1,427
33.1	Hartney brook, bed, 1,400; rail	1,413
35.1	Wool brook, bed, 1,389; rail	1,417
41.7	Lauder, junction with Alida, Glenboro, and Boissevain branches	1,451
50.5	Napinka, junction with La Rivière branch	1,463.1
52.8	Summit	1,470
57.8	Souris river, high water (1882), 1,412; low water, 1,395; rail	1,418
58.7	Melita station	1,416.4
65.5	Elva "	1,497.2
73.0	Pierson "	1,538.2
80.3	North Antler brook, water, 1,601; bed, 1,597; rail	1,611
81.3	Gainsborough station	1,609.5
89.5	Carievale station	1,679.0
92.4	South Antler brook, water, 1,649; bed, 1,643; rail	1,669
97.1	Carnduff station	1,730.4
107.3	Glen Ewen station	1,825.2
114.8	Oxbow station	1,904.1
115.1	Summit, rail	1,909
117.6	Moose Mountain brook, water, 1,720; rail	1,804

CANADIAN PACIFIC RAILWAY

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Miles from
Kemnay

CANADIAN PACIFIC RAILWAY—SOURIS BRANCH

Elevation
above mean
sea level

118.4	Rapeard station...	1,809
121.8	Alameda "	1,903.0
128.9	Grand Trunk Pacific Ry., Regina and Boundary branch, crossing	1,884
129.4	Frobisher station...	1,892.1
137.3	Hirsch "	1,883.5
146.9	Canadian Northern Ry., Bienfait branch, crossing...	1,901.6
147.6	Bienfait station...	1,906.4
156.2	Estevan, junction with Portal and Neptune branches...	1,870.4

CANADIAN PACIFIC RAILWAY—GLENBORO
BRANCH (*Under Construction*)Miles from
Lauder

0.0	Lauder, junction with Souris branch...	1,451
1.4	Summit...	1,461
3.5	Creek, bed, 1,434; rail...	1,447
12.3	Creek, bed, 1,496; rail...	1,532
16.9	Summit...	1,627
19.6	Depression...	1,587
25.3	Summit...	1,640
39.5	Margaret Canadian Northern Ry., Winnipeg and Virden, crossing	1,529
43.8	Creek, bed, 1,379; rail...	1,420
45.0	Depression...	1,361
50.8	Summit...	1,535
56.0	Hilton, Canadian Northern Ry., Wawanesa branch, crossing...	1,374
61.1	Depression...	1,224
67.0	Glenboro station...	1,231

CANADIAN PACIFIC RAILWAY—BOISSEVAIN
BRANCHMiles from
Boissevain

0.0	Boissevain, junction with La Rivière branch...	1,681.2
0.3	Great Northern Ry., Brandon branch, crossing...	1,677
1.4	Sanger station...	1,680
4.4	Schaffner station...	1,665
7.3	Orthes "	1,663
12.7	Croll "	1,655
18.9	Regent "	1,662
23.8	Westhall station (closed)...	1,657
27.0	Dand "	1,627
36.1	Lauder, junction with Souris branch...	1,451

CANADIAN PACIFIC RAILWAY—ALIDA BRANCH

Miles from
Lauder

0.0	Lauder, junction with Souris branch...	1,451
4.7	Souris river, bed, 1,391; rail...	1,403
9.0	Berenice station...	1,438
13.1	Bede station...	1,454
18.6	Broomhill station...	1,480
27.2	Jackson brook, bed, 1,566; rail...	1,580
28.8	Tilston station...	1,626
32.3	Saskatchewan and Manitoba boundary...	1,673
35.0	Council station...	1,701
37.9	North Antler creek, bed, 1,679; rail...	1,704
41.7	Storthoaks station...	1,789
47.4	Nottingham station...	1,826
54.7	Alida station...	1,865

Miles from
SchwitzerCANADIAN PACIFIC RAILWAY—SCHWITZER
AND REGINA BRANCHElevation
above mean
sea level

0.0	Schwitzer, junction with Souris branch.	1,417
4.7	Denbow station.	1,434
9.2	Deleau station.	1,425
13.0	Summit.	1,434
17.4	Findlay station.	1,423
18.9	Canadian Northern Ry., Winnipeg and Virden, crossing.	1,423
26.2	Pipestone station.	1,461
32.7	Reston, junction with Reston and Wolsley branch.	1,527
40.1	Brook, bed, 1,598; rail.	1,610
41.7	Sinclair station.	1,668
47.4	Boundary brook, bed, 1,729; rail.	1,743
47.4	Boundary between Manitoba and Saskatchewan.	1,743
49.3	Antler station.	1,804
53.3	North Antler brook, bed, 1,810; rail.	1,835
53.3	Doris station (closed).	1,836
55.0	Frys station.	1,879
59.0	Middle Antler brook, bed, 1,898; rail.	1,917
60.2	Redvers station.	1,948
67.0	Damwater brook, bed, 1,984; rail.	1,995
69.8	Wauchope station.	2,047
72.0	Summit.	2,088
77.9	Manor station.	2,080
82.8	Steppes station.	2,065
86.0	Canadian Northern Ry., Moose Jaw branch, crossing.	2,080
86.5	Carlyle station.	2,077
89.3	Brook, bed, 2,050; rail.	2,064
91.8	Freemantle station.	2,060
96.8	Arcola station.	1,995
101.1	Armilla station.	1,981
105.1	Kisbey station.	1,981
110.2	Moose Mountain brook, high water, 1,983; rail.	1,986
113.9	Forget station.	2,017
121.7	Stoughton, junction with Stoughton branch.	2,058
128.7	Heward station.	2,048
137.7	Creelman station.	2,026
144.6	Fillmore station.	2,023
149.7	Brook, water, 2,007; rail.	2,011
153.0	Osage station.	2,003
160.7	Brook, bed, 1,986; water, 1,989; rail.	1,994
161.5	Tyvan station.	1,993
163.8	Small lake, high water.	1,976
169.1	Francis station.	1,977
177.4	Sedley station.	1,959
178.7	Brook, high water, 1,943; rail.	1,949
185.2	Lajord station.	1,954
186.7	Brook, water, 1,932; rail.	1,943
190.2	Oyama station.	1,938
193.0	Kronau station.	1,926
197.6	Brook, water, 1,912; rail.	1,916
201.7	Richardson station.	1,910
209.4	McCallum, junction with Canadian Northern Ry.	1,896
210.2	Regina, junction with main line, 1,773.0 miles from Montreal.	1,896.4

CANADIAN PACIFIC RAILWAY

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Miles from
Reston

CANADIAN PACIFIC RAILWAY—RESTON AND WOLSELEY BRANCH

Elevation
above mean
sea level

0.0	Reston, junction with Schwitzer and Regina branch	1,527
8.1	Ewart station.....	1,625
16.6	Ebor station.....	1,753
22.1	Boundary between Manitoba and Saskatchewan.....	1,790
27.7	Maryfield station.....	1,908
27.8	Canadian Northern Ry., Moose Jaw branch, crossing	1,903
35.1	Fairlight station.....	1,945
42.0	Walpole station.....	2,003
51.6	Wawota station.....	2,173
59.0	Dumas station.....	2,204
68.7	Kennedy station.....	2,199
76.8	Summit.....	2,232
77.9	Bender station.....	2,215
84.2	Neelby station.....	2,174
91.4	Windthorst station.....	2,199
98.0	Canadian Northern Ry., Portage la Prairie and Regina, crossing ..	2,273
98.1	Kaiser station.....	2,274
105.5	Baring station.....	2,241
111.6	Deveron station.....	2,195
112.0	Lake, ice (Feb. 1909).....	2,146
116.7	Adair station.....	2,076
122.4	Wolseley, junction with main line, 1,711.4 miles from Montreal..	1,955

Miles from
Pasqua

CANADIAN PACIFIC RAILWAY—PORTAL BRANCH

0.0	Pasqua, junction with main line, 1,807.8 miles west of Montreal ..	1,880.2
5.8	Stelcam station.....	1,877
12.3	Drinkwater station.....	1,875.6
18.1	Pitman station.....	1,895.3
24.8	Rouleau station.....	1,888.1
30.2	Diana station.....	1,895.4
35.3	Wilcox station.....	1,896.5
40.6	Corinne station.....	1,902.3
46.9	Milestone station.....	1,913.3
54.9	Lang station.....	1,909.2
62.3	Ibsen station.....	1,906
67.3	Yellow Grass station.....	1,898.8
70.3	Summit.....	1,905
75.9	McTaggart station.....	1,883.2
80.0	Newnes station.....	1,877
84.0	Souris river (Long creek), bed, 1,847; rail.....	1,861
84.3	Weyburn, junction with Stoughton and Weyburn and Stirling branches.....	1,857.3
84.8	Grand Trunk Pacific Ry., Weyburn branch, crossing.....	1,859
88.8	Garwood station.....	1,873
94.0	Lolph station.....	1,900.6
102.5	LaBrite station.....	1,906.4
111.7	Midale station.....	1,908.0
115.0	Canadian Northern Ry., Moose Jaw branch, crossing	1,871.6
120.3	Macoun station.....	1,902
129.2	Hitchcock station.....	1,911.3
137.4	Estevan, junction with Souris and Neptune branches.....	1,870.4
143.8	Shand station.....	1,851.4
147.4	Souris river, bed, 1,718; water 1,729; rail.....	1,750
147.7	Roche Percée station.....	1,746.8

Miles from Pasqua	CANADIAN PACIFIC RAILWAY—PORTAL BRANCH	Elevation above mean sea level
152.4	Pinto station	1,878.0
159.0	Summit, rail.	1,964
160.6	North Portal station, International boundary	1,954.8
Miles from Estevan	CANADIAN PACIFIC RAILWAY—NEPTUNE BRANCH	
0.0	Estevan, junction with Portal branch	1,870.4
4.9	Long creek, high water, 1,762; water (Nov., 1910), 1,752; rail.	1,813
8.8	Tableland station	1,860
15.8	Outram station	1,901
22.9	Torquay station	1,934
31.7	Bromhead station	1,961
40.2	Tribune station	1,992
47.1	Summit	2,005
47.9	Maxim station	2,001
52.0	Souris river, water (July, 1911), 2,001; rail.	2,007
53.8	Neptune station	2,028
Miles from Stoughton	CANADIAN PACIFIC RAILWAY—STOUGHTON BRANCH	
0.0	Stoughton, junction with Schwitzer and Regina branch	2,058
7.5	Depression	2,009
11.4	Froude station	2,017
18.3	Griffin station	1,994
18.8	Grand Trunk Pacific Ry., Regina and Boundary branch, crossing	1,982
25.0	Summit	2,028
26.3	Hume station	2,017
37.2	Weyburn, junction with Portal and Weyburn and Stirling branches	1,857.3
Miles from Weyburn	CANADIAN PACIFIC RAILWAY—WEYBURN AND STIRLING BRANCH	
0.0	Weyburn, junction with Portal and Stoughton branches	1,857.3
0.2	Exon, junction switch	1,857
7.1	Tatagwa station	1,908
10.9	Yeoman station	1,907
16.9	Trossachs station	1,993
26.1	Axford station	2,157
28.5	Canadian Northern Ry., Moose Jaw branch, crossing	2,129
30.9	Khediye station	2,136
37.9	Pangman station	2,260
44.5	Amulet station	2,376
52.2	Ogema station	2,380
58.0	Glasnevin station	2,413
61.7	Summit	2,422
67.3	Horizon station	2,328
69.1	Depression	2,296
75.8	Viceroy station	2,382
79.0	Depression	2,352
82.3	Landscape station	2,391
88.4	Verwood station	2,335
95.0	Readlyn station	2,219
104.2	Willow station	2,305

CANADIAN PACIFIC RAILWAY

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Miles from
WeyburnCANADIAN PACIFIC RAILWAY—WEYBURN
AND STIRLING BRANCHElevation
above mean
sea level

111.6	Assiniboia station	2,432
117.5	Valour station	2,498
124.1	Limerick station	2,468
133.2	Melaval station	2,407
138.8	Lafleche station	2,386
142.3	Wood river, water (May, 1912), 2,337; high water (1912), 2,350; rail	2,373
145.7	Woodrow station	2,399
151.1	Meyronne station	2,387
151.9	Pinto brook, high water, 2,384; water, 2,383; rail	2,390
158.8	Kincaid station	2,415
164.9	Hazenmore station	2,425
172.3	Aneroid station	2,443
180.9	Ponteix station	2,437
187.2	Gouverneur station	2,519
191.5	Nutukeu creek, bed, 2,509; rail	2,532
194.0	Cadillac station	2,564
199.4	Nutukeu creek, bed, 2,575; rail	2,623
200.8	Crichton station	2,635
204.1	Nutukeu creek, bed, 2,646; rail	2,696
207.4	Admiral station	2,737
211.3	Nutukeu creek, bed, 2,779; rail	2,805
214.4	Scottsguard station	2,847
221.2	Instow station	2,961
229.9	Shaunavon station	3,010

Miles from
WeyburnCANADIAN PACIFIC RAILWAY—WEYBURN AND
STIRLING BRANCH (*Under Construction*)

238.3	Dollard station	3,026
245.1	Southfork station	3,008
252.8	Eastend station	2,995
258.8	Knollys station	3,043
266.3	Ravenscrag station	3,127
271.8	Summit	3,186
274.1	Palisade station	3,144
279.9	Robson station	3,157
286.3	Vidora station	3,076
289.2	Battle creek, bed, 3,062; rail	3,075
292.0	Consul station	3,052
300.7	Senate station	3,171
307.3	Gowanlock station	3,167
308.7	Middle Fork creek, bed, 2,994; rail	3,059
314.0	Altawan station	3,072
317.1	Willow creek, bed, 3,000; grade	3,018
326.3	Grade	3,135
333.7	Summit	3,212
338.4	Sage creek, bed, 3,163; grade	3,178
346.0	Grade	3,121
351.2	Manyberry creek, bed, 3,008; grade	3,038
358.4	Grade	2,933
365.2	Grade	2,839
371.8	Etzikom station	2,893
380.1	Nemiscam station	2,900

Miles from Weyburn	CANADIAN PACIFIC RAILWAY—WEYBURN AND STIRLING—STIRLING BRANCH	Elevation above mean sea level
386.7	Foremost station.....	2,922
394.2	Legend station.....	2,957
402.5	Skiff station.....	2,967
411.1	Conrad station.....	3,081
419.8	Wrentham station.....	3,119
427.7	Judson station.....	3,079
432.1	Etzikom creek, low water (Mar. 23, 1912), 3,015; rail.....	3,024
432.2	Grade.....	3,026
435.8	Stirling, junction with Coutts branch.....	3,045
Miles from Portage la Prairie	CANADIAN PACIFIC RAILWAY—PORTAGE LA PRAIRIE AND WETASKIWIN	
0.0	Portage la Prairie, junction with main line, 1,471.2 miles west of Montreal.....	856
0.9	Grand Trunk Pacific Ry., main line, crossing.....	854
1.5	Transept, Canadian Northern Ry., Oakland branch, crossing.....	852
2.9	Channel by which Assiniboine river overflowed into lake Manitoba (May 3-15, 1882), bed, 250; rail.....	860
6.1	Genest station.....	840
9.9	Macdonald station.....	836
16.9	Westbourne station.....	829
17.4	Whitemud river, bed, 809; rail.....	829
21.8	Gravel pit switch.....	861
25.8	Woodside station.....	856
34.9	Gladstone station.....	886
35.7	Whitemud river, bed, 871; rail.....	890
36.0	Canadian Northern Ry., main line, crossing.....	892
36.5	Gopher brook, bed, 876; rail.....	889
43.2	Keyes station.....	972
47.1	Stream, bed, 1,016; rail.....	1,026
51.5	Arden station.....	1,086
57.3-57.7	Level grade (7 to 7 ft. above natural surface).....	1,153
61.0	Neepawa station.....	1,219
62.0	Canadian Northern Ry., Neepawa and Riding Mt. branch, crossing.....	1,224
64.1	Haanel station.....	1,303
66.3	Stony brook, bed, 1,353; rail.....	1,371
70.3	Franklin station.....	1,597
75.5	Ameer station.....	1,775
76.0	Summit, rail.....	1,797
78.4	Little Saskatchewan river, water, 1,658; bed, 1,654; rail.....	1,668
78.6	Minnedosa, junction with Rapid City branch.....	1,675
83.1	Largs station.....	1,931
87.5	Summit, ground, 1,970; rail.....	1,966
88.6	Basswood station.....	1,953
88.6	Outlet of Basswood lake, bed, 1,939; rail.....	1,957
92.8	Summit, ground, 1,998; rail.....	1,991
96.9	Newdale station.....	1,979
106.2	Strathclair station.....	1,904
108.3	Salt lake, high water (1904).....	1,867
109.1	Summit, ground, 1,895; rail.....	1,887
110.1	Ipswich station.....	1,874
115.0	Shoal Lake station.....	1,818
115.0	Oak river, water, 1,802; bed, 1,799; rail.....	1,820
115.0	Shoal lake, 0.3 mile south, water, approximately.....	1,802
117.0	Summit, ground, 1,845; rail.....	1,840

CANADIAN PACIFIC RAILWAY

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Miles from
Portage la
PrairieCANADIAN PACIFIC RAILWAY- PORTAGE LA
PRAIRIE AND WETASKIWINElevation
above mean
sea level

123.3	Kellow station	1,820
129.8	Solegirth station	1,793
132.8	Ravine, bed, 1,610; rail	1,657
134.5	Birdtail brook, high water (1904), 1,557; bed, 1,542; rail	1,566
137.7	Birtle station	1,707
139.0	Stony brook, bed, 1,703; rail	1,714
145.3	Foxwarren station	1,746
145.8	Snake brook, high water (1904), 1,744; rail	1,747
148.4	Summit, ground and rail	1,780
150.7	Chillon station	1,757
153.6	Silver brook, water, 1,634; rail	1,705
155.0	Binscarth, junction with Russell branch	1,715
157.6	Johnston station	1,655
161.8	Johnston brook, bed, 1,365; rail	1,415
162.5	Millwood station	1,369
162.9	Assiniboine river, water, 1,317; bed, 1,312; high water (1904), 1,338; rail	1,345
167.7	Harrowby station	1,599
173.8	Marchwell station	1,646
180.2	Langenburg station	1,685
189.4	Churchbridge station	1,749
190.9	Walters station	1,739
196.9	Maddebury station	1,738
205.5	Salter's station	1,736
206.4	Summit	1,742
210.9	Clonmel station	1,710
211.9	Brook, bed, 1,685; rail	1,696
215.2	Rekeby station	1,686
218.6	Branch of Whitesand brook, bed, 1,647; rail	1,671
218.8	Chrysler station	1,666
223.0	Yorkton station	1,655
223.2	Grand Trunk Pacific Ry., Yorkton branch, crossing	1,655
227.5	Patrol station	1,706
231.0	Orcadia station	1,586
232.4	Cusced brook, bed, 1,671; rail	1,686
234.4	Big-bone brook, bed, 1,671; rail	1,682
238.6	Springside station	1,695
240.5	Owl brook, bed, 1,684; rail	1,700
244.8	Clair brook, bed, 1,689; rail	1,702
247.9	Theodore station	1,726
254.3	Chippawa brook, bed, 1,785; rail	1,801
257.6	Insinger station	1,765
265.2	Sheho station	1,803
273.3	Tuffnell station	1,824
276.5	Summit	1,865
280.4	Foam Lake station	1,832
288.9	Lealie station	1,847
296.3	Elfrass station	1,810
302.6	Mozart station	1,805
307.7	Reed brook, bed, 1,782; rail	1,795
310.8	Wynyard station	1,814
318.4	Kandahar station	1,743
325.7	Dafoe station	1,722
334.1	Jansen "	1,747
340.0	Esk "	1,795
348.5	Lanigan, junction with Kirkella and Lanigan branch	1,756
355.2	Guernsey station	1,774

Miles from
Portage la
Prairie

CANADIAN PACIFIC RAILWAY—PORTAGE LA
PRAIRIE AND WETASKIWIN

Elevation
above mean
sea level

357.4	Wolverine brook, water, 1,757; rail...	1,762
359.9	Zenith station	1,775
366.5	Plunkett station	1,840
372.2	Lake, bed, 1,799; rail	1,808
375.9	Viscount station	1,798
381.5	Grand Trunk Pacific Ry., Prince Albert branch, crossing	1,765
386.4	Colonsay, junction with Colonsay branch	1,755
392.0	Crossing Third Initial meridian	1,726
394.2	Elstow station	1,720
400.8	Blucher station	1,707
407.9	Chevier station	1,710
412.9	Floral station	1,724
416.1	Engen station	1,697
420.5	Sutherland station	1,662
423.0	South Saskatchewan river, high water, 1,556; water (Sept., 1906), 1,546; rail	1,622
	Canadian Northern Ry., Regina and Prince Albert, crossing	1,607.5
	Saskatoon station	1,596
427.7	Summit	1,664
431.5	Cory station	1,656
440.2	Dunfermline station	1,657
448.8	Asquith station	1,704
455.2	Rhyl station	1,774
457.7	Eagle-hill brook, bed, 1,724; rail	1,748
458.4	Kinley station	1,754
463.6	Perdue "	1,816
471.9	Keppel "	1,973
479.6	Vance "	2,113
481.0	Spring brook, bed, 2,104; rail	2,132
484.5	Biggar station	2,187
488.6	Castlewood station	2,167
492.8	Oban station	2,137
493.5	Grand Trunk Pacific Ry., Battleford branch, crossing	2,127
496.1	Naseby station	2,109
505.8	Traynor station	2,172
512.1	Wolfe station	2,234
515.1	Brook, bed, 2,128; rail	2,180
519.8	St. Alphège station	2,151
523.9	Wilkie, junction with Cutknife and Reford branches	2,183
524.7	Bush, junction switch	2,168
527.6	Summit	2,199
532.2	Phippen station	2,182
539.3	Adanac station	2,123
544.6	Unity station	2,101
546.9	Grand Trunk Pacific Ry., main line, crossing, G. T. P. Ry., rail, 2,046; C. P. Ry., rail	2,075
547.3	Topaz station	2,070
552.5	Buccleugh station	2,061
561.2	Rutland "	2,159
568.9	Senlac "	2,213
570.0	Summit	2,238
578.7	Evesham station	2,159
581.2	Eyehill brook, water, 2,088; rail	2,111
586.0	Macklin, junction with Outlook branch	2,167
588.9	Alberta and Saskatchewan boundary	2,147
593.4	Hayter station	2,171
600.2	Provost station	2,189

CANADIAN PACIFIC RAILWAY

Miles from
Portage la
Prairie

CANADIAN PACIFIC RAILWAY—PORTAGE LA PRAIRIE AND WETASKIWIN

Elevation
above mean
sea level

608.7	Cadogan station	2,199
613.6	Cairns station	2,266
619.9	Metiskow station	2,262
623.3	Summit	2,284
628.9	Czar station	2,231
635.9	Hughenden station	2,277
641.1	Amisk station	2,309
649.9	Rosyth station	2,245
654.1	Battle river, water, 1,983; water (Feb. 27, 1905), 1,970; east end of trestle, 2,061; west end of trestle, rail	2,047
655.2	Hardisty station	2,052
657.6	Creek, low water, 2,013; rail	2,030
667.0	Lougheed station	2,173
674.0	Sedgewick station	2,194
676.8	Iron creek, low water, 2,167; rail	2,177
680.1	Coulée, bed, 2,199; rail	2,214
680.9	Killam station	2,230
689.5	Strome station	2,270
699.2	Daysland station	2,321
706.2	Summit	2,341
708.3	Bawlf station	2,317
709.7	Driedmeat brook, water, 2,310; rail	2,314
717.0	Ohaton station	2,395
717.4	Spring brook, water, 2,388; rail	2,400
717.6	Canadian Northern Ry., Battle River branch, crossing	2,440
725.1	Camrose station	2,431
725.6	Grand Trunk Pacific Ry., Calgary branch, crossing	2,428
725.9	Camrose creek, bed, 2,386; rail	2,425
730.2	Summit	2,498
735.2	Bittern Lake station	2,445
738.2	Bittern brook, bed, 2,423; rail	2,431
741.9	Gwynne station	2,299
742.3	Pipestone creek, bed, 2,281; water, 2,286; rail	2,300
747.9	Creek, bed, 2,456; rail	2,469
750.4	Wetaskiwin, junction with Edmonton branch, 150.6 miles from Alyth	2,492

Miles from
Binscarth

CANADIAN PACIFIC RAILWAY—RUSSELL BRANCH

0.0	Binscarth, junction with Portage la Prairie and Wetaskiwin line, 154.9 miles from Portage la Prairie	1,715
5.2	Gleniffer station	1,778
6.4	Brook, bed, 1,760; rail	1,771
11.3	Russell station	1,837
11.5	End of profile	1,841

Miles from
Virden

CANADIAN PACIFIC RAILWAY—McAULEY BRANCH

0.0	Virden, junction with main line, 1,596.2 miles from Montreal	1,451
2.9	Scallion siding	1,480
8.7	Harmsworth station	1,522
13.6	Two Creeks station	1,547
18.2	Niso brook, bed, 1,526; rail	1,560
19.8	Brook, bed 1,523; rail	1,561

Miles from Virden	CANADIAN PACIFIC RAILWAY—McAULEY BRANCH	Elevation above mean sea level
21.2	Reeder station.....	1,562
26.3	Willen station.....	1,548
30.7	Brook, bed 1,540; rail.....	1,555
34.3	Hotonka brook, bed 1,549; rail.....	1,574
36.5	McAuley, junction with Kirkella and Lanigan branch.....	1,585

Miles from Kirkella	CANADIAN PACIFIC RAILWAY—KIRKELLA AND LANIGAN BRANCH	
0.0	Kirkella, junction with main line, 1,619.4 miles from Montreal...	1,696
3.2	Gopher brook, water, 1,648; rail.....	1,665
8.1	Manson station.....	1,652
10.1	Boulder brook, bed, 1,612; rail.....	1,649
13.2	Brennan brook, bed, 1,589; rail.....	1,617
13.4	Lynch tank.....	1,616
16.8	McAuley, junction with McAuley branch.....	1,585
17.4	Little Scissors brook, bed, 1,562; rail.....	1,579
21.8	Manitoba and Saskatchewan boundary.....	1,639
24.0	Welwyn station.....	1,666
32.2	Summit.....	1,720
33.2	Rocanville station.....	1,717
35.9	Scissors brook, bed, 1,618; rail.....	1,660
39.5	Scissors brook, bed, 1,441; rail.....	1,542
45.8	Qu'Appelle river, high water (July, 1902), 1,372; rail.....	1,381
46.4	Tantallon station.....	1,379
53.8	Hazelcliffe station.....	1,495
57.6	Crossing Second Initial meridian.....	1,584
60.0	Little Cutarm creek, bed, 1,591; rail.....	1,643
63.1	Esterhazy station.....	1,696
65.2	Komora station (closed).....	1,700
72.7	Stockholm station.....	1,759
80.6	Dubuc station.....	1,772
88.6	Grayson station.....	1,778
97.5	Killaley station.....	1,817
106.6	Neudorf station.....	2,000
109.6	Summit.....	2,051
114.8	Lemberg station.....	2,026
120.2	Pheasant creek, bed, 1,826; rail.....	1,921
124.7	Abernethy station.....	1,932
131.6	Balcarres station.....	1,949
132.2	Grand Trunk Pacific Ry., Regina and Boundary branch, crossing.....	1,956
133.8	Cotton station.....	1,971
139.7	Patrick station.....	2,025
141.7	Summit.....	2,050
146.6	Lipton station.....	1,989
149.5	Jumping Deer creek, water, 1,839; rail.....	1,943
155.8	Dysart station.....	1,964
163.4	Cupar station.....	1,881
169.1	Oncree station.....	1,833
170.4	Markinch station.....	1,834
176.3	Southey station.....	1,832
185.6	Earl Grey station.....	1,924
186.6	Summit.....	1,939
192.6	Bulyea, Bulyea Branch switch.....	1,841
193.3	Bulyea station.....	1,835
200.6	Strassburg station.....	1,799

CANADIAN PACIFIC RAILWAY

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Miles from
KirkellaCANADIAN PACIFIC RAILWAY—KIRKELLA AND
LANIGAN BRANCHElevation
above mean
sea level

206.8	Duval station.....	1,745
212.5	Cymric station.....	1,743
217.5	Govan station.....	1,766
225.4	Hatfield station.....	1,698
231.3	Grand Trunk Pacific Ry., main line, crossing.....	1,720
231.5	Nokomis station.....	1,720
235.5	Summit.....	1,739
236.0	Ambassador station.....	1,734
240.6	Lockwood station.....	1,719
247.6	Drake station.....	1,753
254.6	Lanigan, junction with Portage la Prairie and Wetaskiwin line, 348.5 miles from Portage la Prairie.....	1,756

Miles from
ReginaCANADIAN PACIFIC RAILWAY—COLONSAY
BRANCH

0.0	Regina, junction with main line, 1,772.5 miles from Montreal...	1,896.4
0.7	Crecy, junction with main line.....	1,898
6.9	Albatross station.....	1,911
9.8	Brora ".....	1,917
12.2	Tregarva ".....	1,891
20.1	Qu'Appelle river, high water, 1,614; water, 1,608; rail.....	1,621
21.1	Craven station.....	1,620
24.8	Euston, junction with Bulyea branch.....	1,617
25.7	Valeport station.....	1,616
31.7	Regina Beach station.....	1,625
34.3	Last Mountain lake, water (Feb. 20, 1907), 1,608; high water, 1,614; rail.....	1,616
39.1	Kedleston station.....	1,748
46.1	Dilke station.....	1,772
56.0	Holdfast station.....	1,788
63.5	Penzance ".....	1,666
69.0	Liberty ".....	1,659
75.1	Stalwart ".....	1,660
83.1	Imperial ".....	1,690
90.2	Simpson ".....	1,713
97.5	Amazon ".....	1,783
103.9	Renown ".....	1,798
112.2	Plassey ".....	1,770
117.0	Young ".....	1,728
117.7	Grand Trunk Pacific Ry., main line, crossing.....	1,716
123.0	Zangwill station.....	1,709
128.1	Forslund station.....	1,724
133.1	Colonsay, junction with Portage la Prairie and Wetaskiwin line, 386.4 miles from Portage la Prairie.....	1,755

Miles from
Euston

CANADIAN PACIFIC RAILWAY—BULYEA BRANCH

0.0	Euston, junction with Colonsay branch.....	1,617
5.0	Silton station.....	1,794
12.2	Gibbs station.....	1,827
18.1	Bulyea, junction with Kirkella and Lanigan branch.....	1,835

Miles from Moose Jaw	CANADIAN PACIFIC RAILWAY—OUTLOOK BRANCH	Elevation above mean sea level
0.0	Moose Jaw, junction with main line 1,814.6 miles from Montreal	1,778.7
0.0	Colwyn, junction switch.....	1,778
0.9	Grand Trunk Pacific Ry., Moose Jaw branch, crossing, G. T. P. Ry., rail, 1,761; C. P. Ry., rail.....	1,786
8.6	Belbeck station.....	1,923
15.9	Tuxford station.....	1,961
22.7	Marquis station.....	1,964
30.9	Keeler station.....	2,006
38.3	Brownlee station.....	2,048
45.6	Eyebrow ".....	2,073
53.4	Tugaske station (summit).....	1,986
60.2	Pile trestle, base of rail.....	1,905
60.7	Bridgeford station.....	1,908
64.1	Bridge, high water, 1,814; low water, 1,807; bed, 1,805; rail.....	1,874
65.6	Pile trestle, high water, 1,818; low water, 1,814; bed, 1,813; rail..	1,844
68.0	Aiktow station.....	1,825
70.1	Depression.....	1,795
76.8	Elbow station.....	1,930
84.5	Loreburn station.....	2,015
91.6	Strongfield station.....	2,013
92.9	Summit.....	2,034
97.2	Hawarden station.....	1,998
108.0	Glenside station.....	1,886
113.3	Broderick station.....	1,820
117.8	Depression.....	1,744
119.4	Outlook station.....	1,772
120.0	South Saskatchewan river, high water, 1,625; water (Aug. 10, 1908), 1,614; rail.....	1,751
128.6	Conquest station.....	1,874
129.4	Canadian Northern Ry., Delisle branch, crossing.....	1,885
134.1	Bounty station.....	1,883
141.7	Milden station.....	1,873
150.6	Sovereign ".....	1,920
158.6	Fortune ".....	1,931
160.5	Canadian Northern Ry., Saskatoon and Calgary, crossing.....	1,929
163.3	Rosetown station.....	1,928
171.7	Anglia ".....	1,861
181.4	Herschel ".....	1,906
188.9	Stranraer ".....	1,957
197.8	Plenty ".....	2,031
204.7	Druid station.....	2,125
205.7	Grand Trunk Pacific Ry., Lovernna branch, crossing.....	2,136
209.5	Astum station.....	2,199
212.6	Summit.....	2,225
214.0	Ermine station.....	2,212
221.9	Kerobert station.....	2,208
222.9	Rural, Reford Branch switch, 2,223; Coronation Branch switch..	2,232
230.8	Balliol station.....	2,234
237.8	Luseland station.....	2,301
241.7	Summit.....	2,313
245.8	Salvador station.....	2,281
252.4	Depression.....	2,221
253.2	Denzil station.....	2,248
261.2	Primate station.....	2,228
264.8	Hallam station.....	2,216
268.3	Macklin, junction with Portage la Prairie and Wetaskiwin line, 523.9 miles from Portage la Prairie ..	2,167

CANADIAN PACIFIC RAILWAY

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Miles from Wilkie	CANADIAN PACIFIC RAILWAY—CUTKNIFE BRANCH	Elevation above mean sea level
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0.0	Wilkie, junction with Portage la Prairie and Wetaskiwin line, 524.7 miles from Portage la Prairie	
0.8	Bush, Cutknife Branch switch	2,183
8.8	Thackeray station	2,168
14.4	Cloan station	2,225
20.6	Rockhaven station	2,125
28.3	Cutknife station	2,081
		2,097

Miles from Reford	CANADIAN PACIFIC RAILWAY—KELFIELD BRANCH	
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0.0	Reford, junction with Reford branch	2,141
0.4	Brass, junction switch	2,140
5.1	Pascal station	2,167
10.2	Leipzig "	2,212
19.0	Handel "	2,218
28.2	Kelfield "	2,311

Miles from Wilkie	CANADIAN PACIFIC RAILWAY—REFORD BRANCH	
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0.0	Wilkie, junction with Portage la Prairie and Wetaskiwin line, 524.7 miles from Portage la Prairie	2,183
0.8	Bush, Reford Branch switch	2,168
7.0	Grand Trunk Pacific Ry., main line, crossing	2,143.2
7.2	Reford, junction with Kelfield branch	2,141
7.6	Brass, Kelfield Branch switch	2,140
11.8	Creek, bed, 2,013; rail	2,029
18.4	Revenue station	2,174
25.0	Tramping Lake station	2,191
31.7	Broadacres station	2,247
39.2	Verulam station	2,155
43.6	Rural, Reford Branch switch	2,223
44.6	Kerrobert, junction with Outlook branch	2,208

Miles from Moose Jaw	CANADIAN PACIFIC RAILWAY—EXPANSE BRANCH	
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0.0	Moose Jaw, junction with main line, 1,814.1 miles from Montreal	1,778.7
1.7	Curle, junction switch, main line	1,794
7.9	Archive station	1,984
14.0	Buttress "	2,130
21.9	Crestwynd station (summit)	2,418
29.0	Dunkirk station	2,227
36.0	Expanse station	2,232

Miles from Expanse	Projected Extension	
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0.0	Expanse station	2,232
3.3	Grade	2,243
6.7	Road crossing	2,278
9.3	Canadian Northern Ry., Gravelbourg branch, crossing C.N. Ry., rail, 2,285; C.N. Ry., proposed rail, 2,287; C.P. Ry., rail	2,260
12.7	Road crossing	2,343
15.1	Road crossing	2,378
17.7	Grade	2,399
23.2	Road crossing	2,377
30.6	Assiniboia, junction with Weyburn and Stirling line	2,432

Miles from
Swift CurrentCANADIAN PACIFIC RAILWAY—VANGUARD
BRANCHElevation
above mean
sea level

0.0	Swift Current, junction with main line, 1,925.1 miles from Mont- real.....	2,432
7.7	Dunelm station.....	2,669
14.9	Wymark ".....	2,880
21.5	Blumenhof station.....	2,948
27.5	Neville ".....	2,806
35.7	Pambrun ".....	2,572
43.2	Vanguard station.....	2,397

Miles from
Java

CANADIAN PACIFIC RAILWAY—EMPRESS BRANCH*

0.0	Java, junction with main line, 1,931.1 miles from Montreal..	2,459
6.9	Cantaur station.....	2,399
13.7	Success station.....	2,405
20.9	Depression.....	2,338
22.3	Pennant station.....	2,346
27.0	Batrum station.....	2,264
32.9	Antelope creek, bed, 2,084; rail.....	2,125
34.5	Cabri station.....	2,122
37.3	Miry creek, bed, 2,057; rail.....	2,097
43.2	Shackleton station.....	2,176
50.7	Abbey ".....	2,228
51.8	Summit.....	2,243
58.1	Lancer station.....	2,215
64.2	Portreeve station.....	2,227
68.7	Lemsford station.....	2,239
75.5	Sceptre station.....	2,198
81.7	Prelate station.....	2,219
88.2	Prussia station.....	2,202
93.4	Westerham station.....	2,150
101.3	Estuary station.....	2,009
105.8	South Saskatchewan river, high water (July, 1902), 1,911; low water (Nov. 18, 1912), 1,895; water (July 15, 1912), 1,901; rail.....	1,929
107.1	Grade.....	1,950
111.5	Empress station.....	1,965
120.1	Sharrow station.....	2,047
125.1	Bindloss station.....	2,105
127.5	Depression, bed 2,027; rail.....	2,072
134.9	Pancras station.....	2,243
144.5	Buffalo station.....	2,332
151.2	Majestic station.....	2,430
156.6	Atlee station.....	2,531
164.7	Halsbury station.....	2,494
169.2	Jenner station.....	2,480
174.7	Iddesleigh station.....	2,579
181.6	Denhart station.....	2,542
188.1	Princess station.....	2,496
193.2	Little Sandhill creek, bed, 2,369; rail.....	2,399
193.9	Patricia station.....	2,403
196.0	East branch One-tree creek, bed, 2,361; rail.....	2,383
198.5	Millicent station.....	2,385
204.4	Duchess station.....	2,479
206.9	Springhill canal, bed, 2,494; rail.....	2,504
212.6	Rosemary station.....	2,444
221.4	Countess station.....	2,505
229.8	Bassano, junction with main line 2,170 miles from Montreal.....	2,598

*This line will probably be operated as west-bound main line track.

CANADIAN PACIFIC RAILWAY

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Miles from
Suffield

CANADIAN PACIFIC RAILWAY—RETLAW BRANCH

Elevation
above mean
sea level

0.0	Suffield, junction with main line, 2,098.3 miles from Montreal . . .	2,463
7.9	Agatha station	2,506
14.9	Illingworth station	2,475
18.8	Irrigation canal, bed, 2,503; rail	2,513
22.5	Ronolane station	2,477
25.9	Terrace station	2,412
26.9	Bow river, water (April, 1912), 2,321; high water, 2,330; rail	2,390
32.4	Armelgra station	2,488
37.1	Main irrigation canal, Sou. Alta. Land Co., bed, 2,577; rail	2,584
39.2	Scope station	2,564
45.5	Grantham station	2,534
49.9	Vauxhall station	2,555
56.7	Retlaw station	2,616
67.0	Enchant station	2,654
74.9	Travers station	2,722
83.8	Lomond station	2,858

Miles from
Lomond

Under Construction

0.0	Lomond station	2,858
1.2	Road crossing	2,880
5.6	Road crossing	2,964
7.6	Road crossing (summit)	2,994
8.3	Creek, water (Dec. 13, 1912), 2,975; rail	2,990
11.0	Road crossing	2,946
16.6	Road crossing	2,876
17.8	Southern Alberta Land Co.'s reservoir No. 1, high water	2,874
22.2	Rattlesnake lake, bed, (dry, Dec. 20, 1912) 2,832; rail	2,839
26.0	Road crossing	2,891
31.0	Road crossing	2,980
34.5	Creek, bed, 3,005; grade	3,017
36.5	Road crossing	3,025
39.0	East Arrowwood, creek, water (Jan. 1913), 2,998; rail	3,042
41.6	Road crossing	3,065
44.8	West Arrowwood creek, high water, 3,009; water (Jan. 7, 1913), 3,007; rail	3,047
46.0	Road crossing	3,066
51.5	Road crossing	3,166
57.2	Road crossing	3,278
61.4	Road crossing	3,322
66.1	Blackie, junction with Aldersyde branch, 71.9 miles from Kipp . . .	3,360

Miles from
Langdon

CANADIAN PACIFIC RAILWAY—ACME BRANCH

0.0	Langdon, junction with main line, 2,232.1 miles from Montreal . .	3,300
6.6	Inverlake station	3,278
8.7	Weed creek, bed, 3,222; rail	3,238
9.2	Canadian Northern Ry., Saskatoon and Calgary, crossing	3,233
10.6	Irrigation ditch, bed, 3,200; rail	3,211
12.9	Dalroy station	3,177
14.5	Serviceberry creek, bed, 3,139; rail	3,157
18.5	Keoma station	3,120
27.6	Irricana, junction with Irricana branch	3,066
27.8	Switch, Irricana branch	3,051
28.0	Rosebud creek, water, 2,988; rail	3,005

Miles from Langdon	CANADIAN PACIFIC RAILWAY—ACME BRANCH	Elevation above mean sea level
28.9	Grand Trunk Pacific Ry., Calgary branch, crossing, G. T. P. Ry., rail, 3,033; C. P. Ry., rail	3,008
31.2	Beiseker station	3,000
35.0	Summit	3,075
39.8	Acme station	2,968
Miles from Irricana	CANADIAN PACIFIC RAILWAY—IRRICANA BRANCH	
0.0	Irricana, junction with Langdon branch	3,066
0.2	Junction switch	3,051
4.5	Craigdhu station	3,018
9.1	Irrigation ditch, bed, 3,068; rail	3,078
9.7	Swastika station	3,086
10.4	Summit	3,088
17.8	Nightingale station	2,953
19.8	Canadian Northern Ry., Saskatoon and Calgary branch, crossing	2,915
19.9	Serviceberry creek, bed, 2,890; rail	2,915
22.7	Creek, bed, 2,851; rail	2,877
26.6	Tudor station	2,885
35.6	Chimney Hill creek, bed, 2,878; rail	2,914
36.5	Standard station	2,901
39.0	Parfleche creek, bed, 2,857; rail	2,872
43.6	Chancellor station	2,924
51.2	Hussar station	2,994
52.4	Summit	3,001
59.4	Makepeace station	2,851
65.6	Granta station	2,717
72.0	Bassano, junction with main line, 2,170 miles from Montreal	2,598
Miles from Cheadle	CANADIAN PACIFIC RAILWAY—CHEADLE TO ALIX (<i>Abandoned Location</i>)	
0.0	Cheadle, junction with main line, 2,224.7 miles from Montreal	3,244
0.4	Road allowance between R. 25-26, W. 4 mer	3,233
1.3	Road allowance between R. 26-25, W. 4 mer	3,209
4.6	Road allowance between tp. 24-25, R. 25	3,127
7.8	Serviceberry brook, bed, 3,035; grade	3,057
14.0	Summit	3,163
17.2	Road allowance between tp. 26-27	3,097
21.5	Rosebud brook, bed, 2,969; grade	2,987
24.3	Road allowance between R. 24-25, W. 4 mer., tp. 28	3,035
30.9	Road allowance between tp. 28-29	2,983
35.9	Depression	2,805
38.2	Road allowance between tp. 29-30	2,899
41.1	Summit	3,049
44.7	Road allowance between tp. 30-31	2,924
47.9	Three-hill brook, water (Aug. 7, 1906), 2,743; high water, 2,761; grade	2,802
51.7	Road allowance between tp. 31-32, R. 23, W. 4 mer.	2,966
52.9	Road allowance between R. 24-23	3,025
53.8	Summit	3,069
58.8	Road allowance between tp. 32-33	2,937
64.5	Ghost Pine brook (dry, Sept. 10, 1906), high water, 2,774; grade ..	2,786
65.1	Road allowance between tp. 33-34	2,770
72.0	Summit	3,084
73.5	Road allowance between tp. 34-35	3,040
80.0	Road allowance between tp. 35-36	2,910

CANADIAN PACIFIC RAILWAY

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Miles from
CheadleCANADIAN PACIFIC RAILWAY—CHEADLE TO
ALIX (*Abandoned Location*)Elevation
above mean
sea level

80.9	Summit.....	2,938
82.2	Goose Quill lake, water, 2,888; high water, 2,894; grade.....	2,900
86.1	Summit.....	2,984
86.9	Road allowance between tp. 36-37.....	2,955
91.9	Delburne lake, bed, 2,777; grade.....	2,798
93.2	Summit.....	2,924
93.9	Road allowance between tp. 37-38.....	2,809
99.6	Red Deer river, water (July 31, 1906), 2,500; high water, 2,502; grade.....	2,658
99.8	Depression.....	2,649
100.8	Road allowance between tp. 38-39, R. 23, W. 4 mer.....	2,657
104.4	Summit.....	2,686
105.8	Alix, junction with Coronation branch.....	2,614

Miles from
AlythCANADIAN PACIFIC RAILWAY—EDMONTON
BRANCH

2.3	Calgary station.....	3,437
0.0	Alyth, junction with main line, 2,250.3 miles west of Montreal.....	3,398
1.2	Bengal station.....	3,415
1.3	Grand Trunk Pacific Ry., Calgary branch, crossing.....	3,406
1.4	Bow river, water, 3,394; bed, 3,387; rail.....	3,410
1.8	Titian station.....	3,409
2.1	Nose creek, bed, 3,392; rail.....	3,412
3.4	Nose creek, bed, 3,398; rail.....	3,419
5.9	Nose creek, bed, 3,423; rail.....	3,441
7.5	South branch Nose creek, bed, 3,452; rail.....	3,460
8.9	Beddington station.....	3,476
13.9	Balzac station.....	3,542
19.1	Nose creek, bed, 3,539; rail.....	3,549
19.1	Airdrie station.....	3,552
25.9	Nose creek, bed, 3,562; rail.....	3,577
29.0	Crossfield station.....	3,632
29.4	Summit, highest point between Calgary and Edmonton.....	3,638
34.9	Wessex station.....	3,444
35.4	Summit.....	3,453
36.8	Chamberlain brook, water (June, 1913), 3,381; rail.....	3,398
39.5	Carstairs station.....	3,475
41.5	Summit.....	3,520
46.5	Didsbury station.....	3,411
49.5	Rosebud river, bed, 3,300; water, 3,302; rail.....	3,311
51.3	Minaret station.....	3,363
56.5	Olds station.....	3,413
63.0	Newtook station.....	3,299
67.3	Bowden station.....	3,244
73.5	Creek, water (July 3, 1913), 3,025; rail.....	3,046
75.1	Innisfail station.....	3,099
81.6	Waskasu creek, water (July 5, 1913), 2,936; rail.....	2,939
83.9	Penhold station.....	2,955
88.1	Waskasu creek, 3rd crossing, water, 2,917; rail.....	2,923
89.2	Tuttle station.....	2,917
90.3	Waskasu creek, 6th crossing, water, 2,892; rail.....	2,911
92.3	Junction with Alberta Central railway.....	2,867
92.8	Alberta Central Ry., crossing, A. C. Ry., rail, 2,882; C. P. Ry., rail.....	2,852
93.6	Red Deer station.....	2,818

ALTITUDES IN CANADA

Miles from Alyth	CANADIAN PACIFIC RAILWAY—EDMONTON BRANCH	Elevation above mean sea level
94.1	Red Deer river, high water, 2,798; low water, 2,785; water (July 12, 1913), 2,787; rail.....	2,811
96.6	Labuma station.....	2,899
97.9	Summit.....	2,907
101.5	Canadian Northern Ry., Brazeau branch, crossing, C. N. Ry., rail 2,856; C. P. Ry., rail.....	2,828
102.8	Blindman river, water (July 15, 1913), 2,767; rail.....	2,787
105.4	Blackfalds station.....	2,867
112.0	Lacombe, junction with Coronation branch.....	2,795
114.9	Brook, water (July 18, 1913), 2,760; rail.....	2,770
116.3	Lochinvar station.....	2,772
121.2	Morningside station (summit).....	2,810
127.5	Battle river, water (July 22, 1913), 2,626; rail.....	2,641
128.5	Ponoka station.....	2,646
133.8	Menaik station.....	2,616
140.3	Hobbema station.....	2,625
145.4	Navarre station.....	2,516
150.6	Wetaskiwin, junction with Portage la Prairie and Wetaskiwin line	2,492
155.6	Bigstone station.....	2,490
156.1	Bigstone brook, bed, 2,454; high water, 2,464; rail.....	2,484
159.3	Pipestone brook, water, 2,423; high water, 2,435; rail.....	2,447
160.4	Millet station.....	2,472
165.3	Summit.....	2,513
166.9	Kavanagh station.....	2,498
172.7	Leduc station.....	2,393
178.0	Nisku station.....	2,344
180.8	Black-mud brook, water, 2,257; rail.....	2,272
184.4	Ellerslie station.....	2,255
189.5	Canadian Northern Ry., Strathcona branch, crossing.....	2,213
190.6	Strathcona station.....	2,203
192.0	North Saskatchewan river, low water, 2,013; water (Aug. 18, 1913), 2,017; flood, 2,046; bed, 2,005; rail.....	2,171
192.7	Edmonton station.....	2,183

Miles from Lacombe	CANADIAN PACIFIC RAILWAY—CORONATION BRANCH	
0.0	Lacombe, junction with Edmonton branch.....	2,795
4.7	Brook, bed, 2,954; rail.....	2,961
4.9	Summit.....	2,968
9.1	Chigwell station.....	2,895
13.1	Clive station.....	2,815
14.1	Brook, bed, 2,787; rail.....	2,797
19.0	Tees station.....	2,710
26.7	Alix station.....	2,614
27.2	Grand Trunk Pacific railway, Calgary branch, crossing.....	2,607
32.4	Tail creek, bed, 2,526; water, 2,528; rail.....	2,590
35.4	Nevis station.....	2,631
42.2	Erskine station.....	2,666
46.1	Summit.....	2,701
49.6	Stettler station.....	2,693
50.2	Canadian Northern Ry., Battle River branch, crossing.....	2,688
56.8	Botha station.....	2,647
60.8	Brook, high water, 2,650; rail.....	2,655
64.0	Coulée, bed, 2,619; high water, 2,623; rail.....	2,646
64.7	Gadsby station.....	2,652
67.4	Creek, bed, 2,628; rail.....	2,660

CANADIAN PACIFIC RAILWAY

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Miles from
LacombeCANADIAN PACIFIC RAILWAY—CORONATION
BRANCHElevation
above mean
sea level

72.1	Summit.....	2,741
73.4	Halkirk station.....	2,734
80.8	Veldt station.....	2,713
85.0	Castor station.....	2,680
93.9	Fleet station.....	2,722
101.3	Federal station.....	2,626
106.9	Coronation, junction with Lorraine branch.....	2,587
114.5	Throne station.....	2,592
122.4	Veteran station.....	2,616
129.8	Loyalist station.....	2,523
138.5	Consort station.....	2,370
148.4	Monitor station.....	2,219
151.0	Creek, high water, 2,192; rail.....	2,197
155.4	Pemukan station.....	2,232
164.1	Kirriemuir station.....	2,383
171.3	Bideford station.....	2,381
175.1	Depression.....	2,319
179.9	Compeer station.....	2,306
185.9	Court station.....	2,392
190.0	Depression.....	2,333
192.8	Fusilier station.....	2,374
198.9	Summit.....	2,417
200.5	Major station.....	2,379
208.0	Superb station.....	2,339
211.9	Buffalo coulée, bed, 2,229; rail.....	2,282
214.6	Onward station.....	2,250
222.3	Rural, Coronation Branch switch.....	2,232
223.1	Kerrobert, junction with Outlook and Reford branches.....	2,208

CANADIAN PACIFIC RAILWAY—LORRAINE
BRANCH (*Under Construction*)Miles from
Coronation

0.0	Coronation, junction with Coronation branch.....	2,587
5.4	Lure station.....	2,507
11.2	Bulwark station.....	2,414
14.1	Canadian Northern Ry., survey, Camrose and Sibbald line.....	2,341
18.5	Battle river, water, 2,090; rail.....	2,134
19.1	Lorraine station.....	2,143

Miles from
Lorraine(*Projected Extension*)

0.0	Lorraine station.....	2,143
5.9	Creek, bed, 2,212; grade.....	2,259
10.4	Road crossing.....	2,345
13.9	Junction with Sedgwick branch, projected.....	2,319
15.9	Road crossing.....	2,309
21.5	Road crossing.....	2,308
25.9	Road crossing.....	2,354
30.5	Road crossing.....	2,334
36.0	Road crossing.....	2,372
41.2	Road crossing.....	2,363
45.4	Road crossing.....	2,377
51.4	Road crossing.....	2,326
55.7	Road crossing.....	2,370
60.7	Dried Meat creek, water, 2,284; grade.....	2,300
65.9	Junction switch, with Portage la Prairie and Wetaskiwin line.....	2,341
68.4	Ohaton, junction with Portage la Prairie and Wetaskiwin line, 717.0 miles from Portage la Prairie.....	2,395

Miles from Sedgewick	CANADIAN PACIFIC RAILWAY—SEDGEWICK BRANCH (<i>Projected</i>)	Elevation above mean sea level
0.0	Sedgewick, junction with Portage la Prairie and Wetaskiwin line, 674.0 miles from Portage la Prairie	2,194
0.5	Junction switch	2,197
7.5	Road crossing	2,259
11.3	Road crossing	2,268
15.3	Creek, bed, 2,210; grade	2,255
17.1	Creek, bed, 2,234; grade	2,263
20.5	Lake, water, 2,305; grade	2,309
22.0	Junction with Lorraine Branch extension, 13.9 miles from Lorraine	2,319
Miles from Red Deer Junc.	ALBERTA CENTRAL RAILWAY—ROCKY MOUNTAIN HOUSE BRANCH	
0.0	Red Deer, junction with Edmonton branch	2,818
0.6	" " junction switch, 0.8 mile south of Red Deer station	2,867
0.8	Junction, with projected line eastward	2,882
0.8	Edmonton Branch crossing, E. Br., rail, 2,852; A.C. Ry., rail	2,882
3.4	Road crossing	2,916
6.4	Red Deer river, high water, 2,846; low water, 2,839; rail, east end, 2,955; rail, west end	2,964
7.6	Mintlaw station	2,988
11.9	Cygnat station	3,064
13.6	Burnt lake, former level, 3,061; present level	3,055
18.6	Sylvan Lake station	3,152
23.6	Summit, rail	3,244
28.8	Benalto station	3,161
33.1	Medicine river, high water, 3,008; low water, 3,002; rail, east end	3,032
33.6	Horseguard river, low water, 2,997; rail	3,027
36.6	Creek, water, 3,059; rail	3,091
39.1	Hespero station	3,147
44.1	Spring brook, high water, 3,141; rail	3,158
46.9	Summit	3,239
49.0	Alhambra station	3,221
50.6	Horseguard river, South branch, high water, 3,166; low water, 3,158; rail	3,184
56.7	Summit, rail	3,270
57.6	Lake Ernie, water	3,262
60.8	East junction, with Canadian Northern Ry., Brazeau branch	3,225
62.1	North Saskatchewan river, low water, 3,131; ordinary high water, 3,136; extreme high water, 3,140; rail	3,201
63.6	Rocky Mountain House station	3,180
64.8	*West junction, with Canadian Northern Ry., Brazeau branch	3,221
	(<i>Projected Extension</i>)	
70.6	Grade	3,325
75.6	Grade	3,431
78.2	Baptiste river, water, 3,403; rail	3,417
80.1	Baptiste river, water	3,452
83.1	Baptiste river, South branch, water, 3,485; grade	3,495
90.0	Ruth creek, low water, 3,569; high water, 3,571; grade	3,625
94.0	Lawrence creek, low water, 3,634; high water, 3,641; grade	3,673
97.3	Holbrook creek, low water, 3,705; grade	3,718
102.7	Baptiste river, water, 3,793; grade	3,818

* From West junction, mile 64.8, the A. C. Ry. has running powers over the Canadian Northern Ry., Brazeau branch, to Brazeau Collieries.

CANADIAN PACIFIC RAILWAY

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Miles from
Red Deer

ALBERTA CENTRAL RAILWAY—ROCKY MOUNTAIN HOUSE BRANCH *Projected Extension*

Elevation
above mean
sea level

104.6	Baptiste river, north branch, water, 3,825; grade	3,844
109.2	Cochrane creek, water, 3,924; grade	3,947
116.4	Stevens creek, water, 3,915; grade	4,020
120.6	Grade	4,126
124.6	Little Brazeau river, bed, 3,829; grade	4,002
136.2	Brazeau junction, with branch to Brazeau collieries, grade	4,134
137.6	South Brazeau river, bed, 3,877; grade	4,152
140.6	Grade	4,144
145.9	Creek, bed, 3,988; grade	4,048
150.6	Grade	4,032
152.6	Brazeau river, bed, 4,002; grade	4,022
160.6	Grade	4,325
165.1	Pembina river, bed, 4,330; grade	4,410
170.6	Grade	4,523
175.6	Grade	4,626
178.1	Little Pembina river, bed, 4,638; grade	4,700

Miles from
Brazeau

ALBERTA CENTRAL RAILWAY—BRAZEAU COLLIERIES BRANCH *Projected Extension*

0.0	Brazeau junction, with main line, at mileage 135.6	4,134
5.0	Grade	4,252
6.2	South Brazeau river, bed, 4,182; grade	4,237
10.0	Grade	4,415
15.0	Grade	4,727
20.0	Grade	5,058
22.6	South Brazeau river, bed, 5,177; grade	5,212
25.0	Grade	5,368
27.5	South Brazeau river, bed	5,507
28.0	Brazeau Collieries, end of line	5,556

Miles from
Red Deer

ALBERTA CENTRAL RAILWAY—RED DEER EAST *Projected*

0.0	Red Deer, junction with Edmonton branch	2,867
0.4	Junction with Rocky Mountain House line, 0.6 mile from junction	2,882
5.0	Waskasu river, rail	2,886
10.0	Grade	2,950
15.0	Edwell station ground	3,362
17.0	Overhead crossing, rail	3,157
20.0	Grade	3,193
21.3	Pine Lake viaduct, rail	3,134
25.0	Grade	3,086
25.8	Pine Lake station	3,124
30.0	Grade	3,132
35.0	Grade	3,092
40.0	Grade	3,030
45.0	Grade	2,941
50.0	Grade	2,945
55.4	Red Deer river, low water, 2,328; rail	2,882
59.4	Canadian Northern Ry., Battle River branch, crossing, C.N.Ry., rail, 2,671; A.C.Ry., rail	2,758
65.0	Grade	2,713
70.0	Grade	2,796
75.0	Grade	2,810
80.0	Grade	2,775
		2,763

ALTITUDES IN CANADA

Miles from Red Deer	ALBERTA CENTRAL RAILWAY—RED DEER EAST (Projected)	Elevation above mean sea level
85.0	Grade	2,735
90.0	Grade	2,619
95.0	Grade	2,733
100.0	Grade	2,677
105.0	Grade	2,765
110.0	Grade	2,736
115.0	Grade	2,640
120.0	Grade	2,536
125.0	Grade	2,551
130.0	Grade	2,504
135.0	Grade	2,491
140.0	Grade	2,482
145.0	Grade	2,489
150.0	Grade	2,520
155.0	Grade	2,462
159.0	Sounding creek, bed, 2,329; grade	2,371
165.0	Grade	2,474
170.0	Grade	2,500
175.0	Grade	2,418
180.0	Grade	2,369
185.0	Grade	2,365
190.0	Grade	2,399
194.6	4th Initial meridian, grade	2,334
196.7	Canadian Northern Ry., Saskatoon and Calgary, crossing, C.N. Ry., rail, 2,255; A.C. Ry., grade	2,295
200.0	Grade	2,238
205.0	Grade	2,289
210.0	Grade	2,345
215.0	Grade	2,350
220.0	Grade	2,448
225.0	Grade	2,610
230.0	Grade	2,412
235.0	Grade	2,318
240.0	Grade	2,207
245.0	Grade	2,226
250.0	Grade	2,257
255.0	Grade	2,261
257.7	Snipe lake, south end, grade	2,205
260.0	Grade	2,219
265.0	Grade	2,214
270.0	Grade	2,171
275.0	Grade	2,132
277.7	Grade, end of line	2,118
CANADIAN PACIFIC RAILWAY—MACLEOD BRANCH		
Miles from Alyth		
2.3	Calgary station	3,437
0.0	Alyth, junction with main line, 2,250.3 miles from Montreal	3,398
0.4	Canadian Northern Ry. crossing, C.N. Ry., rail, 3,443; C.P. Ry., rail	3,418
4.7	Turner station	3,440
8.2	Fish brook, bed, 3,391; high water, 3,402; rail	3,415
8.9	Midnapore station	3,430
13.0	Pine brook, bed, 3,408; rail	3,480
17.2	De Winton station	3,629
17.7	Summit, ground and rail	3,630
22.0	Sandstone station	3,532
26.3	Okotoks station	3,445

CANADIAN PACIFIC RAILWAY

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Miles from
Alyth

CANADIAN PACIFIC RAILWAY—MACLEOD BRANCH

Elevation
above mean
sea level

27.2	Sheep river, bed, 3,411; low water, 3,413; high water, 3,419; rail	3,433
28.6	Calgary and Macleod trail crossing	3,428
31.9	Aldersyde, junction with Aldersyde branch	3,416
35.8	Tongue brook, bed, 3,387; high water, 3,396; rail	3,400
38.3	Highwood river, low water, 3,385; high water, 3,395; rail	3,404
38.6	High River station	3,401
44.2	Azure station	3,428
47.9	Cayley station	3,514
52.1	Connemara station	3,471
54.0	North Mosquito creek, low water, 3,338; high water, 3,344; rail	3,354
54.8	Nanton creek, low water, 3,334; high water, 3,340; rail	3,351
56.0	Nanton station	3,359
60.9	Durward station	3,381
64.5	Parkland station	3,483
70.8	Stavely station	3,422
76.8	Pulteney station	3,408
80.7	Claresholm station	3,390
87.0	Woodhouse station	3,268
92.1	Granum station	3,273
94.3	Calgary and Macleod trail crossing	3,249
98.1	Willow creek, bed, 3,141; low water, 3,144; high water, 3,157; rail	3,164
99.6	Nolan station	3,187
100.0	Porcupine Hills trail crossing	3,189
103.8	West Macleod station	3,120
104.1	Old-man river, bed, 3,093; low water, 3,096; high water, 3,110; rail	3,116
107.2	Macleod, junction with Crowsnest line	3,116

CANADIAN PACIFIC RAILWAY—ALDERSYDE
BRANCHMiles from
Kipp

0.0	Kipp, junction with Crowsnest line, 116.5 miles from Dunmore	3,060
10.0	Nobleford station	3,227
18.2	Barons station	3,154
27.6	Carmangay station	3,084
28.4	Little Bow river, low water, 2,933; high water, 2,939; rail	3,072
36.1	Champion station	3,152
43.8	Kirkaldy station	3,319
48.9	Vulcan station, (summit)	3,442
53.9	Brook, bed, 3,320; rail	3,347
58.5	Ensign station	3,362
59.5	Depression	3,258
63.0	Brant station	3,272
71.9	Blackie, junction with Retlaw branch extension	3,360
77.5	Mazeppa station	3,360
83.6	Highwood river, bed, 3,362; low water, 3,366; rail	3,391
84.9	Aldersyde, junction with Macleod branch	3,416

CANADIAN PACIFIC RAILWAY—COUTTS BRANCH

Miles from
Lethbridge

0.0	Lethbridge station	2,987
1.8	Montana, junction with Crowsnest line, 106.7 miles from Dunmore	3,017
11.0	Wilson station	3,050
14.0	Summit	3,093
18.4	Eighteen-mile lake, bed, 3,056; rail	3,043
19.9	Stirling, junction with Cardston and Weyburn and Lethbridge branches	3,045
23.9	Wells station	3,130

ALTITUDES IN CANADA

	CANADIAN PACIFIC RAILWAY—COUTTS BRANCH	Elevation above mean sea level
28.3	New Dayton station.....	3,187
34.0	McNab station.....	3,211
40.7	Warner station.....	3,315
42.5	Brunton station (closed).....	3,316
52.5	Summit.....	3,482
53.8	Milk River station.....	3,424
54.1	Milk river, bed, 3,409; rail.....	3,425
63.1	Red river, bed, 3,410; rail.....	3,420
65.0	Summit.....	3,501
66.5	Coutts station (International boundary).....	3,466
	CANADIAN PACIFIC RAILWAY—CARDSTON BRANCH	
Miles from Stirling		
0.0	Stirling, junction with Coutts and Weyburn and Lethbridge branches.....	3,045
1.4	Grade.....	3,125
6.1	Middle coulée, bed, 3,096; rail.....	3,101
7.4	Raymond station.....	3,123
8.6	Grade.....	3,139
9.6	Fifteen-mile butte, rail.....	3,133
12.6	Nine-mile coulée, bed, 3,147; rail.....	3,153
13.0	Welling station.....	3,175
15.3	Summit, ground 400 feet west, 3,210; rail.....	3,199
15.7	Pothole creek, bed, 3,137; rail.....	3,172
18.2	Magrath station.....	3,218
21.0	Magrath lateral ditch, rail.....	3,297
23.7	Bradshaw station.....	3,445
24.2	Summit, rail.....	3,454
26.3	West fork Pothole creek, bed, 3,450; rail.....	3,461
28.3	West fork Pothole creek, bed, 3,516; rail.....	3,522
29.0	Spring Coulée station.....	3,573
34.4	Arm of lake in sec. 23, tp. 4, R. 24, W. 4 mer., water, 3,612; rail.....	3,620
38.3	Raley station.....	3,667
41.0	Summit.....	3,698
42.4	St. Mary river, bed, 3,604; water, 3,621; rail.....	3,633
47.3	Cardston station.....	3,826
	CANADIAN PACIFIC RAILWAY—CROWSNEST LINE	
Miles from Dunmore		
0.0	Dunmore, junction with main line, 2,065.0 miles from Montreal.....	2,411
2.0	Anstead station.....	2,331
2.3	Bulls Head brook, bed, 2,301; rail.....	2,325
9.4	Bulls Head station.....	2,410
12.9	Fitzgerald station.....	2,448
15.5	Seven Persons coulée, bed, 2,434; high water, 2,446; rail.....	2,458
17.4	Seven Persons station.....	2,479
19.8	Eighteen-mile coulée, bed, 2,503; rail.....	2,519
21.2	Stornham station.....	2,591
25.0	Whitla station.....	2,747
27.6	Summit, rail.....	2,783
32.5	Winnifred station.....	2,725
37.1	Inversnay station.....	2,632
41.0	Bew Island.....	2,622
47.9	Burdett.....	2,578
51.2	Juno.....	2,626

CANADIAN PACIFIC RAILWAY

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Miles from
DunmoreCANADIAN PACIFIC RAILWAY—CROWSNEST
LINEElevation
above mean
sea level

56.0	Grassy Lake station	
60.2	Antonio	2,654
64.9	Purple Spruce station	2,619
70.1	Fincastle station	2,628
74.3	Reliance	2,641
76.5	Taber	2,654
81.1	Elcan	2,673
81.8	Barnwell	2,731
86.4	Neidpath	2,734
90.1	Chin	2,738
91.1	Chin coulée, bed, 2,763; rail	2,787
94.1	Tempest station	2,773
98.1	Coaldale	2,816
102.4	Broxburn	2,831
106.4	Summit	2,931
106.7	Montana, junction with Coutts branch	3,019
108.4	Lethbridge station	3,017
108.5	Belly river, high water, 2,708; low water, 2,689; bed, 2,675; rail	2,983
112.8	Lenzie station	2,995
116.5	Kipp, junction with Vandersyde branch	3,057
123.9	Monarch station	3,060
128.2	Old-man river, low water, 2,944; rail	3,104
131.4	Pearce station	3,079
140.0	Macleod, junction with Macleod branch	3,101
145.1	Stowe station	3,116
150.0	Peigan station	3,230
152.3	Summit	3,321
153.9	Crow-lodge brook, bed, 3,350; high water, 3,367; rail	3,398
155.3	Chokio station	3,379
160.5	Brocket station	3,432
161.3	Summit, rail	3,511
162.1	Pincher brook, bed, 3,393; low water, 3,394; high water, 3,414; rail	3,541
169.5	Pincher station	3,510
171.0	Summit, ground, 3,837; rail	3,770
174.0	South fork Old-man river, bed, 3,587; low water, 3,590; high water, 3,600; rail	3,833
176.5	Cowley station	3,730
178.7	Summit, rail	3,841
179.6	Depression, rail	3,930
180.9	Lundbreck station	3,887
183.3	Crowsnest river (1st crossing), bed, 3,799; rail	3,917
187.5	Burmis station	3,825
190.1	Passburg station	4,004
192.4	Bellevue station	4,034
192.9	Hillcrest station	4,092
194.8	Frank, junction with Grassy Mountain Ry.	4,121
195.2	Crowsnest river, bed, 4,177; water, 4,182; rail	4,211
196.6	Blairmore station	4,191
197.6	Crowsnest river (3rd crossing), bed, 4,265; low water, 4,267; high water, 4,270; rail	4,235
200.2	Coleman station	4,276
204.0	Nez Percé creek, bed, 4,439; water, 4,440; rail	4,311
204.2	Sentinel station	4,444
207.7	Crowsnest lake, water	4,450
207.7	Crowsnest river, 4th crossing, 4,124; rail	4,127
209.0	Summit of Rocky Mountains, boundary between British Columbia and Alberta	4,437
		4,459

Miles from Dunmore	CANADIAN PACIFIC RAILWAY—CROWSNEST LINE	Elevation above mean sea level
209.5	Summit lake, water.....	4,435
209.5	Crowsnest station	4,450
214.2	Tunnel, upper portal, rail.....	4,264
214.4	Tunnel, lower portal, rail.....	4,257
214.6	Loop, middle of siding.....	4,248
216.2	McGillivray, junction with Eastern British Columbia Ry.....	4,112
216.2	Michel creek, 1st crossing, bed, 4,144; high water, 4,155; rail.....	4,158
217.5	Michel creek, 2nd crossing, bed, 4,084; high water, 4,092; rail.....	4,102
218.1	Michel creek, 3rd crossing, bed, 4,035; high water, 4,047; rail.....	4,065
218.5	Michel creek, 4th crossing, bed, 4,013; high water, 4,025; rail.....	4,047
218.7	Michel creek, North branch, bed, 4,024; high water, 4,031; rail.....	4,037
222.1	Michel station.....	3,860
223.9	Natal station.....	3,781
225.2	Michel creek, bed, 3,712; high water, 3,719; low water, 3,714; rail.....	3,726
227.6	Sparwood station.....	3,647
229.6	Wardrop station.....	3,595
233.0	Olson station.....	3,537
235.7	Brook, bed, 3,464; rail.....	3,471
238.0	Hosmer station.....	3,456
241.7	Stourbridge station (closed).....	3,348
245.4	Fernie , junction with Coal Creek branch.....	3,313
	Terminus of Coal Creek branch at mines.....	3,836
245.9	Coal creek, water, 3,288; bed 3,287; rail.....	3,300
247.9	Cokato station.....	3,232
253.8	Morrissey, junction with Morrissey, Fernie and Michel Ry.....	3,138
254.1	Branch of Elk river, low water, 3,010; high water, 3,018; rail.....	3,033
256.2	Morrissey creek, bed, 3,097; high water, 3,104; rail.....	3,108
257.9	Currier station.....	3,083
262.0	Elk river, high water, 3,022; low water (Oct. 10, 1897), 3,014; rail.....	3,037
263.6	Elko station, (summit).....	3,089
268.2	Caithness, junction with Waldo branch.....	2,853
278.1	Waldo station.....	2,419
268.6	Rock creek, bed, 2,790; rail.....	2,831
271.2	Galloway station.....	2,849
272.8	Summit, ground, 2,887; rail.....	2,889
273.3	Sand creek, bed, 2,845; low water, 2,847; high water, 2,850; rail.....	2,860
276.1	Little Sand creek, bed, 2,704; low water, 2,706; rail.....	2,714
276.4	Jaffray station.....	2,705
280.8	Colvalli, junction with Kootenay Central railway.....	2,653
281.1	Waggon road crossing.....	2,639
282.0	Jukeson station.....	2,589
285.4	Kootenay river, high water, 2,455; low water (Sept. 6, 1897), 2,438; bed, 2,422; rail.....	2,460
286.6	Wardner station.....	2,591
290.1	Tokay station.....	2,588
294.1	Mayook ".....	2,710
298.6	Rampart ".....	2,692
303.7	Eager station.....	2,899
306.3	Spring brook, bed, 2,924; rail.....	2,948
307.5	North Star, junction with Kimberley branch.....	2,986
308.5	Cranbrook station	3,020
313.9	Loce station, (summit), ground, 3,273; rail.....	3,266
316.7	Wattsburg station.....	3,236

CANADIAN PACIFIC RAILWAY

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Miles from
Dunmore

CANADIAN PACIFIC RAILWAY—CROWSNEST LINE

Elevation
above mean
sea level

318.1	Swansea station.....	3,196
319.4	Moyie river, bed, 3,134; low water, 3,135; high water, 3,139; rail.....	3,144
321.8	Moyie river, bed, 3,036; low water, 3,039; high water, 3,049; rail.....	3,054
322.5	Tunnel, rail.....	3,056
322.9	Jerome station.....	3,057
324.5	Upper Moyie lake, water.....	3,047
328.3	Outlet of Upper Moyie lake, bed, 3,041; rail.....	3,055
328.3	Moyie station.....	3,052
328.6	Lower Moyie lake, water.....	3,047
330.3	Aldridge station.....	3,057
332.8	Moyie river, bed, 3,029; high water, 3,041; low water, 3,033; rail.....	3,049
338.7	Tochty station.....	2,970
340.0	Irishman brook, bed, 2,962; rail.....	2,970
343.6	Ryan station.....	2,904
346.0	Little Moyie river, bed, 2,876; rail.....	2,887
349.2	Yahk, junction with Kingsgate branch.....	2,823
351.1	Curzon station.....	2,816
359.7	Kingsgate station (International boundary).....	2,665
354.4	Goatfell station.....	2,910
354.7	Summit.....	2,912
357.0	Carroll brook, bed, 2,739; rail.....	2,793
359.3	Brook, bed, 2,638; rail.....	2,673
359.8	Kinert station.....	2,651
363.9	Kitchener station.....	2,442
364.1	Russel brook, bed, 2,435; rail.....	2,442
370.4	McNeillie station.....	2,133
370.8	Trail crossing.....	2,219
371.3	Goat River cañon, water, 1,929; rail.....	2,089
372.7	Erickson station, summit.....	2,113
376.0	Creston station.....	1,989
377.7	Kaiser creek, bed, 1,881; rail.....	1,913
381.3	Wynndolion with Great Northern Ry., Kuskonook branch.....	1,858
388.3	Sirdar.....	1,809
389.7	Atbara, with Great Northern Ry., Kuskonook branch.....	1,781
391.5	Kootena, with Great Northern Ry., Kuskonook branch.....	1,775

CANADIAN PACIFIC RAILWAY—CROWSNEST LINE

Sundry elevations between Wardner and Kootenay Landing

Kootenay lake, high water (1894), 1,764; low water (1898-99).....	1,749
Kootenay river, 1¾ miles above mouth of Sand creek.....	2,414
Kootenay river, at mouth of Plumb-bob creek.....	2,421
North fork, Gold creek, 3 miles above junction with main stream.....	3,342
Gold creek, at confluence with North fork.....	3,172
" " " " " South fork.....	3,331
" " " " " at headwaters.....	3,756
Yahk river, East fork, small lake at headwaters.....	3,792
" " " " " at confluence with East fork.....	3,244
" " " " " where trail leaves to cross to the South fork.....	3,621
South fork Yahk river, small lake expansion where trail leaves river.....	3,698
South fork Yahk river at mouth of Deer-lick creek.....	3,812
Summit between Deer-lick and Meadow creeks.....	3,883
Meadow creek, small lake at headwaters.....	3,738
Meadow creek, ½ mile above cascade.....	3,373

CANADIAN PACIFIC RAILWAY—CROWSNEST LINE

Elevation
above mean
sea level*Sundry elevations between Wardner and Kootenay Landing*

Meadow creek, $\frac{1}{2}$ mile below cascade.....	3,182
Moyie river at mouth of Meadow creek.....	2,813
Goat river at mouth of Kid creek.....	2,291
Goat river at ford.....	2,181
Goat river, $\frac{1}{4}$ mile below cañon.....	1,850
Moyie river, $\frac{1}{2}$ mile below mouth of Irishman creek.....	2,943

CANADIAN PACIFIC RAILWAY—KIMBERLEY
BRANCHMiles from
North Star

0.0	North Star, junction with Crowsnest line.....	2,986
5.1	Wanklyn station.....	3,012
7.6	St. Mary river, high water, 2,752; low water, 2,755; rail.....	2,805
7.7	Wycliffe station.....	2,809
9.2	Junction with St. Mary and Cherry Creek Ry.....	3,092
12.5	Fir, junction with Marysville spur.....	3,076
13.4	Marysville station.....	3,083
17.9	Kimberley station.....	3,662
18.8	Mark creek, low water 3,799; bed, 3,798; rail.....	3,810
19.3	Sullivan and North Star mines.....	3,889

KOOTENAY CENTRAL RAILWAY

Miles from
Colvalli

0.0	Colvalli, junction with Crowsnest line, 280.8 miles from Dunmore	2,653
8.7	Bull River station.....	2,462
9.1	Bull river, bed, 2,438; rail.....	2,471
15.2	Fenwick station.....	2,474
22.6	Wild Horse creek, rail.....	2,513
22.8	Fort Steele station.....	2,518
35.6	Wasa station.....	2,532
38.7	Kootenay river, water (Oct., 1911), 2,510; high water, 2,527; grade	2,533
46.0	Skookumchuck station.....	2,611
46.6	Skookumchuck creek, water (Feb., 1912), 2,604; high water, 2,609; grade.....	2,620
54.1	Kootenay river, water (June, 1913), 2,589; grade.....	2,594
54.9	Kootenay river, high water (June, 1913), 2,592; grade.....	2,597
58.4	Kootenay river, water, 2,610; grade.....	2,623
59.8	Findlay creek, high water, 2,636; water, 2,630; grade.....	2,642
61.0	Kootenay river, water, 2,653; grade.....	2,662
62.7	Summit.....	2,669
62.8	Kootenay river, high water, 2,667; water, 2,658; grade.....	2,669
65.3	Canal (disused), water, 2,641; grade.....	2,660
71.2	Upper Columbia lake, water (Oct. 7, 1913), 2,652; rail.....	2,660
75.1	Dutch creek, water (Nov. 13, 1907), 2,646; high water, 2,661; grade.....	2,667
79.1	Mud lake, water (Oct. 9, 1913), 2,613; grade.....	2,620
86.0	Windermere lake, water, 2,607; high water, 2,611; grade.....	2,627
88.0	Windermere station.....	2,616
88.4	Goldie creek, water, 2,614; grade.....	2,619
92.4	Atholmer station.....	2,617
94.0	Toby creek, high water, 2,610; grade.....	2,616

CANADIAN PACIFIC RAILWAY

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Miles from
Colvalli

KOOTENAY CENTRAL RAILWAY

Elevation
above mean
sea level

98.3	Under construct	Columbia river, water (Jan., 1906), 2,599; high water, 2,609; grade	2,612
100.4		Columbia river, water (Jan., 1906), 2,593; high water, 2,597; grade	2,599
106.2		Edgewater station.....	2,600
111.4		Luxor station.....	2,599
118.0		Bisco station.....	2,590
120.2		Columbia river, high water, 2,585; grade	2,588
123.4		Summit.....	2,601
123.5		McMillan creek, grade.....	2,598
125.3		Spillimacheen station.....	2,589
126.5		Cedar creek, grade.....	2,597
132.0		Harrogate station.....	2,583
140.7		Columbia river, high water (1911), 2,574; rail	2,578
143.0		Parsons station.....	2,578
143.5		Columbia river, water (Nov., 1904), 2,568; rail	2,576
150.7		Mallett station.....	2,575
154.6		Twelve-mile creek, rail.....	2,574
156.9		Nine-mile creek, rail.....	2,577
160.0		Golden, junction with main line, 2,424.6 miles from Montreal	2,583

Miles from
NelsonCANADIAN PACIFIC RAILWAY—BOUNDARY
BRANCH

0.0	Nelson, junction with Procter branch.....	1,774
1.0	Kootenay lake, high water, 1,764; low water.....	1,749
3.6	Granite station.....	1,768
4.4	Kootenay river, main channel, high water (1909), 1,741; low water, (Feb., 1905), 1,724; rail.....	1,769
4.4	Kootenay river, flood channel, high water (1909), 1,757; east chan- nel, high water, 1,747; rail.....	1,767
4.8	Taghum station.....	1,767
7.0	Beasley station.....	1,771
10.0	Upper Bonnington station.....	1,710
10.8	Bonnington Falls station.....	1,682
11.9	South Slocan, junction with Slocan Lake branch.....	1,638
14.3	Shore Acres station.....	1,539
15.1	Slocan river, high water (1909), 1,493; low water (1905), 1,481; rail	1,539
15.4	Glade station.....	1,541
18.4	Tarry station.....	1,515
20.1	Thrums station.....	1,456
23.4	Brilliant station.....	1,440
25.4	Columbia river, high water (1909), 1,408; low water, 1,360; rail	1,450
25.7	Castlegar, junction with Rossland branch.....	1,422
27.4	West Robson station.....	1,435
30.0	Westley station.....	1,427
32.4	Labarthe station.....	2,045
39.1	Shields station.....	2,195
40.4	Boulder creek, bed, 2,111; rail.....	1,375
43.6	Lower Arrow lake, high water, 1,402; low water.....	2,543
49.9	Coykendal station.....	3,229
50.2	Tunnel, highest point in, rail.....	3,221
55.1	Tunnel station.....	3,685
58.0	Porcupine station.....	3,984
62.5	Farron station (summit of McRae pass).....	3,550
66.4	Paulson station.....	3,122
70.5	Coryell station.....	2,663
73.3	Wade station.....	2,366
	Christina station.....	

Miles from Nelson	CANADIAN PACIFIC RAILWAY—BOUNDARY BRANCH	Elevation above mean sea level
77.0	Fife station.....	1,875
81.0	Kettle river, high water, 1,472; low water, 1,460; rail.....	1,559
81.9	Cascade station.....	1,590
83.0	Billings station.....	1,658
87.1	Gilpin station.....	1,681
93.5	Cuprum, Republic and Grand Forks junction.....	1,702
94.0	Kettle river, low water, 1,672; rail.....	1,701
94.8	Grand Forks station.....	1,746
96.4	East Granby, junction with Granby Smelter spur.....	1,833
98.9	Granby smelter.....	1,837
100.4	Fisherman station.....	2,237
105.4	Hodges station.....	2,764
108.8	Eholt, junction with Phoenix branch.....	3,097
117.3	Greenwood, junction with Mother Lode spur.....	2,466
121.1	Boundary Falls station.....	2,344
126.6	Midway station.....	1,914

Miles from Cuprum	KETTLE VALLEY RAILWAY	
0.0	Cuprum, junction with Boundary branch.....	1,702
0.4	Kettle river, water, 1,690; grade.....	1,706
0.8	Grand Forks station.....	1,705
2.5	Great Northern Ry. crossing.....	1,754
3.6	Summit.....	1,774
4.0	Smelter lake, water, 1,749; grade.....	1,766
5.5	Depression.....	1,756
8.0	Niagara station.....	1,785
11.0	Kettle river, water, 1,782; grade.....	1,801
14.4	Hornet brook, bed, 1,838; grade.....	1,851
18.9	Lynch brook, bed, 1,897; grade.....	1,906

Projected Extension

22.0	Bay of North fork Kettle river, bed, 1,912; grade.....	1,936
31.1	Brook, bed, 2,215; grade.....	2,224
36.3	St. Anne brook, bed, 2,437; grade.....	2,447
39.1	Kettle river, bed, 2,551; grade.....	2,572
41.4	Franklin brook, bed, 2,664; grade.....	2,688
43.2	End of profile.....	2,977

KETTLE VALLEY RAILWAY—MIDWAY TO PRINCETON

Miles from Midway	(Under Construction)	
0.0	Midway, junction with Boundary branch.....	1,914
9.3	Nicholson creek, bed, 1,972; grade.....	1,985
11.8	Rock Creek station.....	1,994
11.8	Kettle river, high water, 1,979; grade.....	1,994
15.6	Kettle river, high water, 2,010; water (Sept. 20, 1910), 2,001; grade.....	2,017

CANADIAN PACIFIC RAILWAY

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Miles from Midway	KETTLE VALLEY RAILWAY—MIDWAY TO PRINCETON (Under Construction)	Elevation above mean sea level
16.5	Station ground.....	
19.6	Kettle river, high water.....	2,026
20.2	Confluence of West fork, high water.....	2,052
20.5	Westbridge, road crossing, rail.....	2,058
23.6	West fork Kettle river, at mouth of Conkle creek, high water, 2,195; grade.....	2,064
27.0	West fork Kettle river, high water, 2,190; grade.....	2,126
30.0	West fork Kettle river, high water, 2,297; grade.....	2,129
32.5	West fork Kettle river, high water, 2,373; grade.....	2,327
34.7	West fork Kettle river, high water, 2,421; grade.....	2,380
36.2	West fork Kettle river, high water, 2,446; grade.....	2,433
39.1	West fork Kettle river, high water, 2,496; grade.....	2,457
41.6	West fork Kettle river, high water, 2,544; grade.....	2,506
45.2	West fork Kettle river, high water.....	2,568
46.3	West fork Kettle river, high water.....	2,666
46.5	Carmi, Penticton street.....	2,703
50.5	Wilkinson creek, water, 2,977; grade.....	2,783
52.0	Ferroux creek, water, 3,027; grade.....	2,983
55.6	Grade.....	3,042
57.9	Weird creek, water, 3,202; grade.....	3,212
60.3	Weird creek, water, 3,419; grade.....	3,318
62.6	Arlington creek, water, 3,225; grade.....	3,429
64.8	Creek, water, 3,590; grade.....	3,238
65.7	Wolfe creek, bed, 3,615; grade.....	3,641
67.8	Cookson creek, bed, 3,661; grade.....	3,686
68.1	Lalonde creek, bed, 3,710; grade.....	3,785
69.7	Devil creek, bed, 3,793; grade.....	3,794
71.6	Harmer creek, bed, 3,945; grade.....	3,863
75.9	Hydraulic summit, by levels from Midway, 4,148; by levels from Penticton.....	3,949
78.6	Hydraulic creek, bed, 4,084; grade.....	4,165
80.6-83.4	Level.....	4,125
86.6	Grade.....	4,132
86.7	Tunnel.....	4,127
87.6	East branch Cañon creek, bed, 3,909; grade.....	4,127
88.8	West branch Cañon creek, bed, 3,977; grade.....	4,125
93.2	East branch Priest creek, bed, 3,973; grade.....	4,115
94.2	West branch Priest creek, bed, 4,001; grade.....	4,065
96.6	Grade.....	4,049
97.4	East fork Sawmill creek, bed, 3,932; grade.....	4,042
99.2	West fork Sawmill creek, bed, 3,914; grade.....	4,042
103.6	Grade.....	4,042
107.3	Station ground.....	4,045
107.3	Chute lake, water.....	3,914
113.8	East end of siding.....	3,909
114.6	East portal of tunnel, grade.....	3,230
114.9	West portal of tunnel, grade.....	3,154
116.6	Mill creek, bed, 2,800; grade.....	3,117
116.7	Tunnel, west portal, grade.....	2,934
117.0	Pine creek, bed, 2,735; grade.....	2,810
118.8	Chute creek, bed, 2,497; grade.....	2,783
122.0	Tunnel, west portal, grade.....	2,586
123.2	Mill creek, bed, 2,062; grade.....	2,253
124.9	Camp creek, bed, 1,850; grade.....	2,119
127.7	Four-mile creek, bed, 1,586; grade.....	1,938
128.8	Three-mile creek, bed, 1,447; grade.....	1,627
132.6	Penticton creek, bed, 1,230; grade.....	1,498
		1,247

ALTITUDES IN CANADA

Miles from Midway	KETTLE VALLEY RAILWAY—MIDWAY TO PRINCETON (Under Construction)	Elevation above mean sea level
133.2	Penticton, Main street.....	1,202
133.6	" Fairview road.....	1,169
134.0	" Moose Jaw street.....	1,150
	" wharf, Okanagan lake, extreme high water, 1,130; rail.	1,132
134.2	Okanagan river, water, 1,116; grade....	1,147
136.7	Telephone line crossing, grade.....	1,422
140.3	Trout creek, bed, 1,292; grade.....	1,532
142.2	Siding, east end, 1,728; west end.....	1,743
147.2	Bay of Trout creek, high water, 2,122; low water, 2,117; grade.....	2,136
147.4	Road crossing.....	2,157
148.7	Trout creek, high water, 2,216; low water, 2,215; grade.....	2,225
151.5	Trout creek, high water, 2,442; low water, 2,438; grade.....	2,448
152.5	Trout creek, high water, 2,522; grade.....	2,529
153.1	Trout creek, high water, 2,557; grade.....	2,564
156.4	Trout creek, high water, 2,754; grade.....	2,797
157.6	Trout creek, high water, 2,914; grade.....	2,931
158.4	Station ground.....	2,994
163.2	Camp creek, bed, 3,157; grade.....	3,216
165.3	Station ground.....	3,320
170.0	Trout creek, bed, 3,484; grade.....	3,530
172.0	Station ground.....	3,606
172.3	Osprey lake, high water (Apr. 11, 1913), 3,603; grade.....	3,607
173.0	Grade.....	3,613
173.8	Link lake, high water, 3,594; grade.....	3,600
176.7	Creek, bed, 3,399; grade.....	3,455
181.4	Siwash creek, bed, 3,116; grade.....	3,229
182.3	Station ground.....	3,232
185.6	Ravine, bed, 3,162; grade.....	3,244
187.8	Tunnel.....	3,225
192.7	Christina creek, bed 2,988; grade.....	3,103
193.0	Station ground.....	3,065
194.0	Road crossing, grade.....	2,979
197.1	Stream, bed, 2,621; grade.....	2,673
200.8	One-mile creek, bed, 2,189; grade.....	2,261
202.3	Grade.....	2,156
203.0	Tulameen river, high water, 2,092; rail.....	2,103
203.3	Junction with Vancouver, Victoria and Eastern Ry.....	2,107
203.5	*Princeton station.....	2,111
Miles from Otter Summit	KETTLE VALLEY RAILWAY—OTTER SUMMIT TO HOPE—(Under Construction)	
0.0	*Otter Summit, station ground.....	3,220
4.5	Coldwater river, high water, 3,126; water, 3,125; grade.....	3,129
4.6	N.K. & S. junction, with Nicola Branch extension.....	3,022
5.1	Coldwater river, bed, 3,027; high water, 3,031; grade.....	3,039
5.6	Coldwater river, bed, 3,049; high water, 3,053; grade.....	3,061
7.3	Station ground.....	3,130
9.3	Coldwater river diversion, high water, 3,231; grade.....	3,235
10.9	West fork Coldwater River bridge; Coldwater river, high water, 3,327; grade.....	3,334

* Between Princeton and Otter summit—38 miles—the Kettle Valley has running powers over the Vancouver, Victoria and Eastern Ry.

CANADIAN PACIFIC RAILWAY

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Miles from
Otter
Summit

KETTLE VALLEY RAILWAY—OTTER SUMMIT TO HOPE—(Under Construction)

Elevation
above mean
sea level

12.0	Station ground	3,201
14.6	Lost creek, bed, 3,513; high water, Coldwater river, 3,511; grade	3,519
15.5	Coldwater river, bed, 3,540; high water, 3,547; grade	3,552
15.8	Coldwater river, bed, 3,556; high water, 3,565; grade	3,567
16.6	Coldwater river, bed, 3,532; high water, 3,537; grade	3,606
18.8	Coquihalla summit, ground, 3,683; grade	3,664
20.7	Tunnel, west portal, grade	3,507
20.9	Tunnel, west portal	3,483
22.2	Bridal Veil Falls creek, water, 3,202; grade	3,443
22.4	Tunnel, west portal, grade	3,326
22.7	Tack creek, water, 3,216; grade	3,295
23.5	Tunnel, west portal, grade	3,202
24.1	Tunnel, west portal, grade	3,145
24.5	Tunnel, west portal, grade	3,107
25.2	Station ground, middle of	3,029
26.9	Slide creek, water, 2,750; grade	2,851
28.6	Tunnel, west portal, grade	2,647
29.2	Tunnel, west portal, grade	2,587
30.6	Station ground, middle of	2,439
33.3	Station ground, middle of	2,145
33.8	Watercourse, bed, 2,025; grade	2,103
35.0	Boston Bar creek, bed, 1,880; grade	1,966
36.6	Tunnel, east portal, grade	1,786
37.9	Ladner creek, water, 1,433; grade	1,646
38.2	Twenty-mile creek, bed, 1,510; grade	1,616
39.6	Tangent creek, bed, 1,360; grade	1,486
40.0	Fifteen-mile creek, bed, 1,358; grade	1,409
43.6	Eleven-mile creek, bed, 964; grade	1,018
49.9	Coquihalla river, bed, 574; grade	584
50.0	Station ground	577
53.7	Hope trail	253
54.5	Coquihalla river, bed, 173; grade	183
54.7	Vancouver, Victoria and Eastern Ry., junction	177
54.8	Canadian Northern Ry., main line, crossing	175
55.8	Fraser river, high water (1894), 140; water (June 16, 1913), 135; water (July 16, 1913), 126; water (Feb. 12, 1913), 115; grade	152
57.6	Junction switch	214
	Hope, junction with Canadian Pacific Ry., main line	174

Miles from
Eholt Junc.

CANADIAN PACIFIC RAILWAY—PHOENIX BRANCH

0.0	Eholt, junction with Boundary branch	3,097
2.2	Coltern junction	3,431
4.9	Silica station	3,851
5.5	Athelstan station	3,962
7.5	Hartford junction	4,451
9.7	Phoenix station	4,603

Miles from
Rosebery

CANADIAN PACIFIC RAILWAY—NEW DENVER AND SLOCAN BRANCH (Projected)

0.0	Rosebery, junction with Nakusp and Slocan branch	1,785
2.7	New Denver station	1,800
5.6	Silverton station	1,799
15.3	Eleven-mile creek, bed, 1,768; proposed grade	1,787
21.0	Slocan, junction with Slocan Lake branch	1,780

Miles from Nelson	CANADIAN PACIFIC RAILWAY—PROCTER BRANCH	Elevation above mean sea level
0.0	Nelson, junction with Boundary branch.....	1,774
5.4	Troup, junction with Great Northern Ry.....	1,785
15.5	Horrop station.....	1,790
20.4	Procter station.....	1,784
Miles from Lardo	CANADIAN PACIFIC RAILWAY—LARDO BRANCH	
0.0	Kootenay lake, high water, 1,764; low water.....	1,796
0.0	Lardo station.....	1,789
5.8	Bay of Duncan river, water, approximately, 1,779; grade.....	1,802
8.1	La Blanche station.....	1,823
11.4	Lardo river, water (May 26, 1901), 1,855; high water, 1,859; rail.....	1,867
12.0	Howser station.....	1,874
16.5	Bosworth station.....	1,972
19.9	Gold Hill station.....	2,063
21.1	Cascade brook, bed, 2,077; rail.....	2,086
23.2	Poplar station.....	2,177
23.8	McInnes station.....	2,184
29.8	Tenderfoot brook, bed, 2,283; rail.....	2,287
29.9	Lardo river, water, 2,287; rail.....	2,294
33.2	Gerrard station.....	2,365
	Trout lake, low water,.....	2,347
Miles from Slocan Junc.	CANADIAN PACIFIC RAILWAY—SLOCAN LAKE BRANCH	
0.0	South Slocan, junction with Boundary branch.....	1,638
2.6	Crescent Valley station.....	1,590
6.3	Slocan river, extreme flood.....	1,570
9.3	Koch station.....	1,610
10.8	Passmore station.....	1,630
10.8	Slocan river, extreme flood.....	1,616
15.5	Lebahdo station.....	1,583
16.6	Slocan river at mouth of Pedro creek, extreme flood.....	1,693
18.5	Winlaw station.....	1,723
23.4	Perry station.....	1,731
26.1	Lemon Creek station.....	1,788
31.3	Slocan City station.....	1,773
31.3	Slocan lake, high water (1894), 1,774; low water (Feb., 1897).....	1,762
Miles from Kaslo	CANADIAN PACIFIC RAILWAY—KASLO AND SLOCAN BRANCH	
	Kootenay lake, extreme high water (1894), 1,777; ordinary high water, 1,764; low water.....	1,749
0.0	Kaslo station.....	1,777
5.1	Zwicky station.....	2,308
11.6	Adamant, west switch.....	2,754
14.9	Blaylock, west switch of wye.....	3,009
17.6	Retallack station.....	3,353
19.3	Fish lake, water (June, 1912).....	3,509
19.2	Giegerich station.....	3,517
20.0	Bear lake, water (June 15, 1912) 3,526; rail.....	3,533
23.3	McGuigan station.....	3,527
27.1	Cody junction.....	3,527
29.0	Sandon, K. & S. station.....	3,528

CANADIAN PACIFIC RAILWAY

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Miles from
Nakusp

CANADIAN PACIFIC RAILWAY—NAKUSP AND SLOCAN BRANCH

Elevation
above mean
sea level

0.0	Upper Arrow lake, high water (1894), 1,416; low water...	1,383
2.0	Nakusp station.....	1,414
4.6	Slocan trail crossing.....	1,635
5.2	Slocan trail crossing.....	1,903
7.0	Brouse station.....	1,954
11.6	Quilquiliskin creek, bed, 2,045; rail.....	2,099
12.7	Summit, ground, 2,507; rail.....	2,503
12.7	Summit Lake station.....	2,501
23.5	Summit lake, high water, 2,492; low water.....	2,490
24.0	Hills station.....	1,786
24.4	Slocan lake, high water (1894), 1,774; low water (Feb., 1897).....	1,762
32.5	Rosebery station.....	1,796
35.2	Denver Cañon siding.....	2,108
36.4	Mamo Concentrator siding.....	2,449
37.4	Three Forks station.....	2,591
39.0	East fork Carpenter creek, high water, 2,811; low water, 2,806. rail.....	2,823
40.7	East fork Carpenter creek, high water, 2,978; low water, 2,975; rail Sandon, N. & S. station.....	2,989 3,497

Miles from
Castlegar

CANADIAN PACIFIC RAILWAY—ROSSLAND BRANCH

0.0	Castlegar, junction with Boundary branch.....	1,450
3.6	Kinnaird station.....	1,602
6.0	Blueberry station.....	1,583
8.0	Poupore station.....	1,579
10.0	Genelle station.....	1,436
12.5	Birchbank station.....	1,412
14.2	Murphy station (closed).....	1,402
18.7	Smelter, junction with Trail spur.....	1,576
20.7	Trail station.....	1,367
21.7	Warfield station.....	2,113
23.8	Figer station.....	2,494
24.7	Crown Point station.....	2,550
27.9	Union Avenue station.....	3,269
29.3	Rossland station.....	3,517
	End of track, Le Roi mine.....	3,743

Miles from
Revelstoke

CANADIAN PACIFIC RAILWAY—ARROW LAKE BRANCH

0.0	Revelstoke, junction with main line, 2,519.6 miles west of Mont- real.....	1,494
0.9	Illicilliwaet river, high water, 1,440; low water, 1,435; rail.....	1,449
4.0	Columbia river (Montana slough), high water, 1,428; low water, 1,422; rail.....	1,436
9.7	Greenslide station.....	1,491
15.0	Akolkolex river, bed, 1,391; rail.....	1,419
16.9	Wigwam station.....	1,457
18.8	Columbia river (slough), high water, 1,405; rail.....	1,412
27.4	Arrowhead station.....	1,405
27.4	Upper Arrow lake, high water (1894), 1,416; low water.....	1,383

Miles from Sicamous	CANADIAN PACIFIC RAILWAY—OKANAGAN BRANCH	Elevation above mean sea level
0.0	Sicamous, junction with main line, 2,564.7 miles west of Montreal	1,153
1.0	Shuswap lake, high water, 1,149; extreme high water, 1,152; low water.	1,133
12.1	Mara station.	1,151
17.4	Grindrod station.	1,169
22.6	Enderby station.	1,160
25.3	Bennett brook, bed, 1,145; rail.	1,161
30.5	Summit, watershed between Columbia and Fraser rivers.	1,191
31.5	Armstrong station.	1,182
37.9	Larkin station.	1,314
38.9	Summit, rail.	1,351
46.0	Vernon station.	1,250
50.8	Okanagan Landing station.	1,133
50.8	Okanagan lake, extreme high water, 1,130; low water.	1,125

Miles from Spence Bridge	CANADIAN PACIFIC RAILWAY—NICOLA BRANCH	
0.0	Spence Bridge, junction with main line, 2,721.3 miles from Montreal	774
5.8	Nicola river, high water, 970; rail.	1,000
10.0	Clapperton station.	1,145
16.7	Nicola river, high water, 1,405; rail.	1,413
20.0	Dot station.	1,463
30.0	Canford station.	1,728
32.2	Nicola river, bed, 1,825; rail.	1,835
35.0	Coyle station.	1,875
38.0	Coutlee "	1,909
40.0	Merritt, junction with Nicola Branch extension.	1,960
47.0	Nicola station.	2,048

Miles from Merritt	CANADIAN PACIFIC RAILWAY—NICOLA BRANCH EXTENSION	
0.0	Merritt, junction with Nicola branch.	1,960
1.6	Coldwater river, bed, 1,985; grade.	2,005
4.9	Coquihalla river, bed, 2,123; grade.	2,134
10.0	Grade.	2,315
10.3	Bay of Coldwater river, water (Aug. 3, 1910), 2,324; high water, 2,327; grade.	2,332
13.2	Bay of Coldwater river, water (Aug. 16, 1910), 2,442; high water, 2,450; grade.	2,466
14.8	Road crossing, grade.	2,540
17.6	Voght creek, water (Sept 2, 1910), 2,648; high water, 2,652; grade.	2,674
17.8	Road crossing, grade.	2,182
21.8	Bay of Coldwater river, water, 2,843; high water, 2,848; grade.	2,869
23.9	Coldwater river, water, 2,939; high water, 2,943; grade.	2,967
25.0	N.K.&S. junction, with Kettle Valley railway.	3,022

Miles from Westminster junction	CANADIAN PACIFIC RAILWAY—WESTMINSTER BRANCH	
0.0	Westminster junction, with main line, 2,882.5 miles from Mont- real.	38
4.8	Fraser Mills station.	17

CANADIAN PACIFIC RAILWAY

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Miles from
Westminster
Junction

CANADIAN PACIFIC RAILWAY—WESTMINSTER BRANCH

Elevation
above mean
sea level

6.4	Sapperton station.....	
8.2	New Westminster station ..	18
11.4	Summit.....	16
18.6	Eburne, junction with Lulu Island branch	41
		29

Miles from
Mission

CANADIAN PACIFIC RAILWAY—MISSION BRANCH

0.0	Mission, junction with main line, 2,857.4 miles from Montreal	26
0.7	Fraser river, high water (1894) 26; low water, 1.0; rail..	35
2.0	Matsqui station.....	25
4.0	Clayburn station.....	26
6.5	Abbotsford station.....	88
10.0	Huntingdon station.....	4

Miles from
Vancouver

CANADIAN PACIFIC RAILWAY—LULU ISLAND BRANCH

0.0	Vancouver station.....	14
3.4	" junction with English Bay branch ..	28
4.2	Summit, ground, 243; rail.....	238
6.2	Magee station.....	111
10.7	Eburne station.....	29
14.1	Lulu Island station.....	6
	Steveston station ..	6

Miles from
Victoria

ESQUIMALT AND NANAIMO RAILWAY—VICTORIA SUBDIVISION

0.0	Victoria station.....	
0.8	Russell station ..	31
3.7	Esquimalt station ..	42
5.7	Parson Bridge station ..	32
7.9	Colwood station.....	99
9.6	Bay of Langford lake, water, 210; rail ..	246
10.7	Goldstream station.....	212
14.0	Niagara station.....	280
14.2	Niagara cañon, bed, 310; rail ..	488
17.0	17-mile post.....	508
20.0	Malahat station ..	733
20.3	Summit, ground, 921; rail ..	915
22.0	Fitzgerald station.....	916
25.0	25-mile post.....	862
26.2	Shawnigan Lake, Strathcona Lodge station.....	550
27.8	" Koenig Hotel station.....	453
28.0	Shawnigan lake, high water, 380; low water.....	387
31.2	Cobble Hill station ..	376
34.1	Hillbank station ..	312
35.5	Cowichan station ..	171
38.1	Koksilah station ..	116
39.7	Duncan station ..	25
41.4	Hayward, junction with Lake Cowichan branch.....	47
		73
44.1	Tansor station.....	258

Miles from Victoria	ESQUIMALT AND NANAIMO RAILWAY— VICTORIA SUBDIVISION	Elevation above mean sea level
45.4	Weismiller station.....	324
50.7	Sahtlam station.....	648
59.4	Lake Cowichan station.....	545
42.6	Somenos station.....	105
44.4	Tyee station.....	126
46.2	Mount Sicker station.....	29
46.8	Westholme station.....	26
47.5	Osborne Bay, junction with Osborne Bay branch.....	29
50.0	Crofton station.....	16
51.2	Chemainus station.....	106
52.1	Chemainus creek, bed, 71; rail.....	99
54.5	Saltair station (summit).....	179
56.0	Blainey station.....	131
58.4	Ladysmith station.....	80
61.6	Brenton ".....	92
64.7	Cassidy station.....	129
65.3	Nanaimo river, extreme high water, 68; low water, 43; rail.....	133
66.3	Fiddick ".....	152
67.2	South Wellington station.....	121
69.2	Stark station.....	81
70.0	Stockett junction.....	82
72.5	Nanaimo station.....	130
74.9	Northfield station.....	153
77.3	Wellington ".....	368
86.8	Nanoose station.....	22
89.7	Bryn station.....	154
92.0	Craig station.....	118
95.2	Parksville, junction with Port Alberni branch.....	199
101.8	Qualicum Beach station.....	173
105.0	Dashwood station.....	206
110.2	Dunsmuir station.....	89
114.5	Bowser station.....	109
118.1	Deep Bay spur.....	86
121.0	Mud Bay station.....	53
130.2	Union Bay station.....	74
136.0	Royston station.....	100
139.7	Courtenay station.....	94

ESQUIMALT AND NANAIMO RAILWAY—PORT ALBERNI BRANCH

0.0	Parksville, junction with Victoria subdivision.....	199
4.8	Coomb station.....	292
7.6	Hillier station.....	377
9.2	Whiskey Creek station.....	408
12.8	Cameron Lake station.....	644
	Cameron lake, water.....	604
18.4	Apenee station.....	999
21.1	Summit, rail.....	1,277
22.0	Arrowsmith station.....	1,216
31.8	Bainbridge station.....	468
36.8	Alberni station.....	83
38.8	Port Alberni, wharf, floor level.....	16.5

CANADIAN PACIFIC RAILWAY

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ESQUIMALT AND NANAIMO RAILWAY—SUNDRY ELEVATIONS

Elevation
above mean
sea level

Englishman river, rail	96
Parksville Road crossing	210
French creek, low water, 252; rail	293
Little Qualicum river, low water, 585; rail	612
Cowichan lake, extreme high water, 542; low water,	533
Summit, location between Alberni and Great Central lake	309
Sproat lake, low water	70
Great Central lake, low water	260
Summit, thalweg between Ash river and Comox lake	1,375

CANADIAN PACIFIC RAILWAY—TRIAL LINES AND LOCATIONS

FRENCH RIVER TO BOBCAYGEON ROAD

Miles from
French River

0.0	Lake Huron, at mouth of French river, high water, 583.4; low water, 579.66; mean water	581.26
20.0	Lake, water	614
24.6	Summit, ground	703
25.4	Brook, bed	645
35.3	Kawagamong lake, high water, 665; low water	658
40.0	Naked lake, water	765
43.0	Gull lake, water	701
45.4	Summit, ground	834
46.5	Sandy lake, water	665
49.8	Shaw " "	727
52.6	Bass " "	725
55.0	Surprise " "	715
56.9	West boundary Pringle tp., 190 ft. N. of con. line VIII and IX	740
58.5	Rainy lake, water	749
59.0	Deer " "	823
59.0	Long " "	827
63.7	Intersection of line between lots 20 and 21, 800 ft. north of con. line II and III, Pringle tp.	991
64.2	Brook, lot 22, con. III, Pringle tp., water	991
66.4	Nipissing road, 900 ft. south of line between lots 160 and 161.	1,083
69.3	Commanda brook, 1,800 ft. south of line between cons. XI and XII, Lount, water	1,074
70.8	Rat lake, lot 32, con. IX, Machar, water	1,085
73.4	Eagle lake, lot 23, con. VIII, Machar, water	1,165
75.0	Summit, lot 18, con. VII, Machar, ground	1,230
75.6	Brook, lot 15, con. VII, Machar, water	1,195
81.5	South boundary of Machar, 1,650 ft. west of east boundary, ground	1,145
84.2	Couchie lake, water	1,143
86.5	South river, water	1,151
89.4	South river, at Bobcaygeon Road bridge, water	1,203
89.9	Bobcaygeon road	1,224
90.4	South river, water	1,207
90.8	End of profile at pond, water	1,215

FRENCH RIVER TO LAKE AMABLE-DU-FOND

Miles from
Cantin Bay

0.0	French river, Cantin bay, high water, 591; low water ..	588
5.■	Pickereel river, water	589
10.■	Ground	709

CANADIAN PACIFIC RAILWAY—TRIAL LINES
AND LOCATIONSElevation
above mean
sea levelMiles from
Cantin Bay

FRENCH RIVER TO LAKE AMABLE-DU-FOND

18.4	Pickereel river, water	664
21.1	Summit	723
22.0	Red Pine lake, water	680
22.8	Birch lake, water	677
31.7	Brook, water	734
34.8	Brook, water	823
44.1	Commanda brook, water	736
45.0	Commanda lake, water	739
46.8	Summit	780
48.1	Wee lake, water	744
49.3	Brook, water	768
57.6	Nipissing road, ground	1,021
60.8	Summit	1,113
63.7	South river, high water, 880; low water	874
68.6	Summit, ground	1,173
70.7	Stream, bed	1,050
75.8	Summit, ground	1,385
78.1	Moon lake, water	1,314
80.6	Branch of South river, water	1,221
88.6	Amable-du-Fond lake, water	1,192

Miles from
Spanish RiverCONFLUENCE OF SPANISH AND VERMILION
RIVERS TO STURGEON RIVER

27	Round lake, water	778
30	Summit	877
33	Long or Kenogami lake, water	796
49	Wanapitei river, below falls, 759; above falls	802
58	Bank of Wanapitei river	832
68	Summit	940
76	Sturgeon river, water	790

LAKE NIPISSING TO MATTAGAMI RIVER

*Austin's Line, 1880*Miles from
L. Nipissing

0.0	Lake Nipissing, high water, 645.8; low water	638.5
19.0	Sturgeon river, below Sturgeon falls, mean water	643
19.1	" above Sturgeon falls	674
25.1	" below Sandy falls	678
25.2	" above Sandy falls	694
27.2	" below rapids	695
27.7	" above rapids	701
29.5	" below Smoky falls	702
29.8	" above Smoky falls, high water, 730; low water	720
35.2	Sturgeon river, at mouth of Tomiko river, high water, 734; low water	721
40.6	Sturgeon river, at mouth of Pike river, high water, 746; low water	723
50.6	Sturgeon river, at mouth of Snake brook, high water, 739; low water	728
52.3	Sturgeon river, at mouth of Timagami river, high water, 750; low water	733
66.8	Sturgeon river, at mouth of Maskinonge river, high water, 793; low water	783

CANADIAN PACIFIC RAILWAY—TRIAL LINES
AND LOCATIONSElevation
above mean
sea level

LAKE NIPISSING TO MATTAGAMI RIVER

Austin's Line, 1880

Miles from L. Nipissing		
76.2	Sturgeon river, at mouth of Wawaskasing brook, low water, 809; mean water.....	813
111.0	Paul lake, grade, 1,270; water.....	1,251
114.0	Divide between river St. Lawrence and Montreal river.....	1,311*
133.5	Montreal crossing, grade, 1,253; bed.....	1,203
136.8	Montreal crossing, grade, 1,223; bed.....	1,183
138.6	Montreal crossing, grade, 1,203; bed.....	1,163
150.7	Height of land between river St. Lawrence and Hudson bay.....	1,248
164.0	Stream from Peter Lake, grade, 1,138; bed.....	1,118
175.5	Mattagami river, 4 miles below lake Mattagami (at head of "Great" rapid), grade, 1,188; bed.....	1,098
181.8	Tatchikapika river, grade, 1,143; bed.....	1,118
191.5	Junction with Division "D", 1871.....	1,123

FRENCH RIVER TO LAKE WENEBEGON

	French river, at head of Pine rapid, high water, 618; low water..	614
	Lake Wigwasikagamog.....	682
	Long lake.....	801
	Whitewater lake.....	963
	Vermilion river, 1 mile below mouth of Wonabing river.....	956
	Spanish river, at junction with East branch.....	640
	" " 2 miles below mouth of Lacloche river.....	760
	" " 3 miles above mouth of Lacloche river (a small lake expansion).....	810
	Spanish river, at end of portage to Bark lake.....	850
	" " at mouth of Vermilion river (Osaniminda).....	1,010
	" " at end of portage to lake Pogamasing.....	1,281
	Lake Masinanwaning.....	900
	Lake Lacloche, headwaters of Lacloche river.....	1,116
	Osaniminda river, at end of canoe route to Wakonassish river.....	1,327
	Osaniminda river, Vermilion lake.....	1,460
	Lake Manjabung.....	1,448
	Wakonassish river, at end of canoe route from Osaniminda river.....	1,413
	Wakonassish river, Gull lake.....	1,483
	Lac aux Sables.....	1,518
	Riv. aux Sables, at first lake-expansion above Lac aux Sables.....	1,534
	Mississagi river, Bark lake.....	1,522
	Mississagi river, Green lake.....	1,362
	Mississagi river, at mouth of stream from Lac Rond.....	1,334
	Lac Rond.....	1,339
	Mississagi river, lake at headwaters.....	1,577
	Riv. Epinette, lake at headwaters.....	1,470
	Riv. d'Embarras, lake at headwaters.....	1,460
	River Cypress, Moulé lake at headwaters.....	1,422
	Wenebagon river, at mouth of river d'Embarras.....	1,460
	Wenebagon river, at end of Long Lake portage.....	1,367
	Summit between Bark lake and riv. aux Sables.....	1,554
	Summit on canoe-route, Mississagi river to Bark lake.....	1,586
	Crossing of Mississagi river, 34 miles from lake Wenebagon....	1,422
	Cypress river at confluence with Mississagi river.....	1,386

*Elevations from 114.0 to 191.5 miles are barometric.

ALTITUDES IN CANADA

CANADIAN PACIFIC RAILWAY—TRIAL LINES AND LOCATIONS		Elevation above mean sea level
	Cypress river at confluence with riv. Epinette.....	1,394
	" " riv. Rocher Fendu.....	1,416
	" 2½ miles below Cypress lake.....	1,422
	Lake Cypress or Wagong.....	1,428
	Green lake.....	1,262
	Lake Wenebagon.....	1,450
LAKE WENEBEGON TO PIC RIVER		
Miles from L. Wenebagon	Lake Wenebagon.....	1,315*
0.0	Garden river, lat. 47° 33' 26".....	1,380
13.5	General level about.....	1,400
17-35	Deepwater lake.....	1,390
30.1	Summit.....	1,600
41.0	Montreal river, lake expansion.....	1,410
42.0	Summit.....	1,840
46.7	Small lake.....	1,470
48.0	Shikwamkwa river, 1st crossing.....	1,384
52.4	Shikwamkwa river, 2nd crossing.....	1,345
53.2	Summit.....	1,735
57.6	Shikwamkwa river, 3rd crossing.....	990
64.5	Summit.....	1,790
65.8	Michipicoten river, Whitefish lake.....	940†
68.0	Summit.....	1,376
69.0	Small lake.....	1,008
74.5	Small lake.....	1,107
77.2	Summit.....	1,331
78.5	Magpie river.....	848
81.2	Catfish river.....	855
85.2	Summit.....	1,447
87.0	Doré river.....	1,030
89.2	West branch Doré river.....	1,240
93.0	Summit.....	1,364
94.2	Gull lake.....	1,095
97.0	Dog river.....	1,101
103.4	Puckaswa river, Fox lake.....	1,396
110.2	Summit.....	1,688
112.0	Mingush lake.....	1,454
119.2	Mingush river, half mile above mouth of Owl river.....	1,376
125.4	Summit lake.....	1,778
129.0	Summit.....	1,823
129.4	Sand-beach river, White Rock lake.....	1,230
136.0	Sand-beach river.....	1,031
140.8	Sand-beach river.....	972
142.7	White river.....	968
147.0	Lake Superior, at mouth of Pic river, mean water (1871-1900)...	601.7
164.0		
LAKE MISSINAIBI TO PIC RIVER		
Miles from L. Missinaibi	Lake Missinaibi.....	1,134
0.8	Anjigama lake.....	1,174
4.0	Summit.....	1,355
21.1		

*This profile gives lake Wenebagon as 1,315 instead of 1,450, as on the preceding, or 135 feet lower. As both are probably barometric, they may be considered as of equal weight.

†The profile, "Shikwamkwa river to Pic river" gives the elevation of Whitefish lake as 986. Probably both are barometric only.

CANADIAN PACIFIC RAILWAY

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CANADIAN PACIFIC RAILWAY—TRIAL LINES AND LOCATIONS

Elevation
above mean
sea level

Miles from
L. Missinaibi

LAKE MISSINAIBI TO PIC RIVER

24.0	Winjiget lake.....	1,265
34.5	Makadawagama lake.....	1,265
42.0	Oba river, lake-expansion, 5 miles below Oba lake.....	1,250
45.5	Oba river.....	1,216
49.0	Shore of Oba lake.....	1,218
55.7	Height-of-land between lake Superior and Hudson bay.....	1,300
60.0	Shell or Esnagami lake.....	1,273
65.0	Moosewater lake.....	1,288
68.9	Height-of-land between lake Superior and Hudson bay.....	1,306
69.2	Summit, highest point on line.....	1,336
70.9	Kabinagaming river.....	1,278
76.0	Trout lake.....	1,298
89.3	Height-of-land between lake Superior and Hudson bay.....	1,450
90.2	Lake Matawanan.....	1,430
95.0	Lake Kaginagokog.....	1,461
98.2	Height-of-land between lake Superior and Hudson bay.....	1,470
106.0	Lake Kachekatonga.....	1,386
117.0	Lake Pukatonga.....	1,200
126.0	White lake.....	1,084
138.0	East branch Black river, Wabikijkaba lake.....	1,064
153.1	Black river.....	776
163.0	Pic river.....	602

Miles from
Shikwamkwa
River

SHIKWAMKWA RIVER TO PIC RIVER

0.0	Shikwamkwa river, at forks.....	1,051
20.0	Michipicoten river, Whitefish lake.....	986
27.5	Michipicoten river, lake Manitowik.....	996
29.0	Small lake.....	1,160
37.0	River Kagagakwabi, lake-expansion.....	1,144
39.3	River Kagagakwabi, lake-expansion.....	1,278
43.7	Small lake.....	1,209
46.6	Magpie river, lake-expansion.....	1,014
54.2	Branch of Magpie river.....	1,227
60.7	Small lake.....	1,355
69.2	Small lake.....	1,304
72.5	Dog lake, lat. 48° 20' N. and long. 85° 15' W.....	1,331
78.0	Dog river, lake-expansion.....	1,333
81.0	Pucka lake, Nekkazo river.....	1,298
88.8	White river, at mouth of Fish river.....	1,280
115.0	White lake.....	1,084
124.0	White river.....	1,061
134.0	Lake Agitamo.....	1,042
150.0	Lake Superior, mean water (1871-1899).....	601.7

Miles from
L. Superior

NIPIGON RIVER TO LONG LAKE

0.0	Nipigon river, at mouth, mean water.....	601.7
0.8	Summit, ground, 703; grade.....	671
5.0	Lake Helen, water.....	606
13.2	Stream, bed, 649; grade.....	736
14.9	Stream, water, 751; grade.....	811
17.4	Stream, water, 816; grade.....	827

ALTITUDES IN CANADA

CANADIAN PACIFIC RAILWAY—TRIAL LINES
AND LOCATIONSElevation
above mean
sea levelMiles from
L. Superior

NIPIGON RIVER TO LONG LAKE

19.4	Lake, water, 825; grade.....	836
21.3	Summit (lake just east of summit, 841, and one just west, 889), ground.....	963
22.9	Third lake, water.....	889
25.3	Lake Nipigon, water.....	850
32.4	Summit, ground.....	1,011
37.0	Lake, water.....	1,060
46.2	River, water.....	1,342
55.5	Poplar river, water.....	1,375
62.0	Lake, water.....	1,363
67.8	River, water.....	1,364
70.3	Summit, ground.....	1,441
72.5	Otter lake, water.....	1,413
74.9	Whitefish lake, water.....	1,242
76.1	Kestrel lake, water.....	1,296
78.6	Summit, height-of-land between lake Superior and Hudson bay... Depression, ground.....	1,343
81.7	River, water.....	1,224
88.0	Summit, ground.....	1,222
94.3	River, water.....	1,282
97.3	Summit, ground.....	1,122
98.8	Summit, ground.....	1,188
100.9	Little Long lake, ice.....	1,080
105.2	River, water.....	1,068
116.3	Summit, ground.....	1,139
122.0	Summit, ground.....	1,156
126.0	Long lake, water.....	1,011

LAKE NIPIGON TO THE HEIGHT-OF-LAND

McConnell's Line, 1873

Miles from
Zero

0.0	Zero is 36.84 miles on Austin's line, Division I, 1872.....	909
3.1	Stream, water.....	1,008
3.2	Summit, ground.....	1,055
4.8	Small stream, water.....	1,001
6.4	Summit, ground.....	1,083
6.7	Trout brook, water.....	969
9.2	Kabitotikwia river, water.....	1,008
10.7	" ".....	1,106
10.9	" ".....	1,118
11.1	" ".....	1,130
13.0	" ".....	1,188
14.3	Tattnall lake ".....	1,244
15.5	Lake to north ".....	1,248
17.6	Lake to north ".....	1,296
19.8	Summit, ground.....	1,307
23.1	Gull river (5 miles south of mouth of Roaring river), water.....	1,115
28.0	Summit, ground.....	1,352
28.2	Roaring river, water.....	1,337
31.0	Summit, ground.....	1,431
34.8	Round lake, water.....	1,375
40.6	Summit, ground.....	1,520
42.0	Kitchiwatchi lake, water.....	1,438
43.5	Donald " ".....	1,473
47.1	Salter " ".....	1,478

CANADIAN PACIFIC RAILWAY

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CANADIAN PACIFIC RAILWAY—TRIAL LINES
AND LOCATIONSElevation
above mean
sea level

LAKE NIPIGON TO THE HEIGHT-OF-LAND

Miles from Zero	McConnell's Line, 1873	
47.4	Wabiteek lake, water.....	1,483
48.0	Loon " ".....	1,481
48.4	Duck " ".....	1,487
53.0	Kashishibog " ".....	1,474
56.0	Clearwater " ".....	1,484
57.1	Summit, height-of-land between lake Superior and Hudson bay, ground.....	1,588
59.0	End of profile at small lake.....	1,467

LAKE HELEN TO LAKE NIPIGON

Miles from L. Helen		
0.0	Lake Helen, water, 606; grade.....	620
0.9	Brook, water, 631; grade.....	655
3.4	Brook, water, 650; grade.....	706
7.5	Brook, water, 810; grade.....	832
9.5	Summit, ground, 899; grade.....	851
9.7	First lake, water, 824; grade.....	842
11.1	Second lake, water, 838; grade.....	846
11.7	Summit, between Helen and Nipigon lakes, ground, 964; grade ..	878
13.0	Third lake, water, 884; grade.....	894
	Lake Nipigon, water.....	850

BLACK STURGEON RIVER TO WABINOSH RIVER

Miles from Black Sturgeon River	Division I, 1872, Austin's Line	
0.0	Near crossing of Black Sturgeon river, ground.....	721
1.7	Summit, ground.....	823
4.6	Brook, water.....	783
5.1	Summit, ground.....	842
11.1	Nonwatan river, high water, 749; ordinary water.....	746
13.6	Summit, ground.....	878
18.5	Black Sturgeon lake, at mouth of Menaic river, high water, 832; ordinary water.....	829
21.9	Brook, bed, 845; water.....	851
23.4	Brook, water.....	834
25.0	Summit, ground.....	900
28.9	Brook, (near Black Sturgeon l. e), water.....	832
32.2	Summit.....	968
35.3	Poshkokagan river, high water, 868; water.....	866
36.2	Summit.....	957
43.4	Kabitotikwia river, high water, 860; water.....	857
49.4	Brook, water.....	852
57.7	Gull river (about 3 miles in straight line from mouth), high water, 863; water.....	859
64.0	Level, ground.....	924
67.8	Summit, ground.....	968
72.8	Wabinosh river, high water, 916; water.....	913
74.4	End of profile.....	933

CANADIAN PACIFIC RAILWAY—TRIAL LINES
AND LOCATIONSElevation
above mean
sea level

DOG RIVER TO LAKE NIPIGON

Miles from
Dog River

Division M, 1873

0.0	Ground.....	1,632
1.8	Small lake (drains into Dog river), water.....	1,569
8.4	Dog river, bed, 1,543; water.....	1,546
10.5	Small lake, water.....	1,571
12.1	Small lake, water.....	1,561
13.6	Summit, ground.....	1,683
17.3	Small lake, water.....	1,540
19.0	Small lake, water.....	1,618
21.2	Summit, between waters of Dog and Poshkokagan rivers, ground.....	1,539
21.5	Small lake, water.....	1,626
25.2	Summit, ground.....	1,739
27.1	Stream, water.....	1,615
29.2	Summit, ground.....	1,733
30.2	Small lake, water.....	1,664
38.8	Small lake (drains to Poshkokagan river), water.....	1,528
41.0	Small lake (drains to Poshkokagan river), water.....	1,491
45.0	Poshkokagan lake, water.....	1,353
50.4	Summit, ground.....	1,543
50.8	Small lake, water.....	1,474
57.3	Branch of Poshkokagan river, bed.....	1,263
70.5	Lac de la Lune, water.....	964
72.0	Small lake, water.....	997
78.4	End of profile.....	1,118

BLACK STURGEON LAKE TO BASKET LAKE

Miles from
Black Sturgeon
Lake

Division N, 1874, Garden's Line

0.0	Austin's line, near Black Sturgeon lake, ground.....	867
4.0	Lake, water.....	1,026
4.4	Summit, ground.....	1,076
6.4	Circle lake, water.....	964
8.2	Depression, ground.....	945
10.7	Summit.....	1,072
11.9	Depression.....	1,054
18.8	Stream, bed.....	1,245
21.1	Summit, ground.....	1,374
21.9	Lake, expansion of Poshkokagan river, water.....	1,341
29.9	Summit, ground.....	1,638
34.0	Stream, bed.....	1,440
42.7	Summit, ground.....	1,579
43.9	Lake, water.....	1,500
45.4	River, water.....	1,472
48.3	Small lake, water.....	1,514
50.7	Summit, ground.....	1,764
51.7	Lake, water.....	1,494
53.2	".....	1,514
55.1	Summit, ground.....	1,569
55.9	Lake, water.....	1,493
57.8	".....	1,486
62.2	Summit, ground.....	1,585
63.4	Lake, water.....	1,533

Elevation
above mean
sea level

Division N, 1874, Garden's Line

Miles from
Black Sturgeon
Lake

65.4	Otter lake, water.....	1,514
66.8	Small lake, water.....	1,602
68.4	Junction with Division O., 1873, ground.....	1,582

Division O, 1873, Moberley's Line

Miles from Div. N.	Division O, 1873, Moberley's Line	
0.0	Junction with Div. N., 1874, ground	1,582
1.0	Lake, water	1,541
4.7	Summit, height-of-land between lake Superior and Hudson bay, ground	1,581
7.0	Lake, water	1,580
9.6	Summit, ground	1,598
11.7	River, water	1,512
13.7	"	1,501
15.4	Summit, ground	1,592
17.7	Lake, water	1,512
23.8	"	1,555
26.3	Summit, ground	1,612
28.1	Lake, water	1,502
31.8	"	1,599
40.4	Lake, water	1,529
42.0	"	1,541
47.0	English river, 1st crossing, water	1,459
49.9	Summit, ground	1,518
57.0	English river, 2nd crossing, water	1,347
57.8	Summit, ground	1,492
58.3	Brook, bed	1,404
61.1	Summit, ground	1,467
67.8	Lake, water	1,320
72.0	"	1,319
73.4	English river, 3rd crossing, water	1,319
76.0	Barrel lake, water	1,319
84.2	Lake, water	1,369
84.7	Summit, ground	1,401
86.0	Lake, water	1,362
89.7	"	1,329
94.1	Summit, ground	1,431
96.0	Lake, water	1,339
99.5	Summit, ground	1,390
102.0-109.8	Basket lake	1,344
110.0	Summit, ground	1,435
111.5	Lake, water	1,309
113.3	End of profile (station 2695-47, Jarvis' line), ground	1,301

LAKE WINDIGUSTIGWAN TO MANITOU LAKE

Miles from
L. Windigu-
stigwan

0-0	Zero is 0.65 mile west of Windigustigwan lake outlet and on left bank of French brook, ground	
9-0	Pickernel or Kaogassikok lake, water	1,450
13-0	Brook, water	1,337
14-4	Lake, water	1,382
17-7	"	1,386
	"	1,393

CANADIAN PACIFIC RAILWAY—TRIAL LINES
AND LOCATIONSElevation
above mean
sea levelMiles from
L. Windig-
ustigwan

LAKE WINDIGUSTIGWAN TO MANITOU LAKE

21.3	Island lake, water	1,393
27.2	Summit, ground	1,539
34.6	Lake on canoe-route, Sturgeon lake to Seine river, water	1,347
37.2	Summit, ground	1,378
38.6	Perch lake, high water	1,260
48.0	Bay of Seine river, water	1,240
48.5	Summit, ground	1,318
58.0	Seine river, water	1,146
59.7	"	1,141
64.4	Summit, ground	1,241
65.9	Little Turtle brook, water	1,136
74.6	Lake, water	1,133
77.8	Turtle lake, water	1,133
81.8	Bay of Turtle river, water	1,136
83.8	Summit, ground	1,202
84.9	Heron river, water	1,180
86.6	Lake, water	1,219
90.0	Heron lake, water	1,184
91.2	Summit, ground	1,330
93.2	Lake, water	1,190
94.7	River, water	1,204
95.5	Summit, ground	1,250
97.2	Brook, water	1,189
99.0	Otukamanioan lake, water	1,189
101.7	Sakwite lake, water	1,199
106.5	Summit, ground	1,394
108.3	Island lake, water	1,331
110.3	Caterpillar lake, water	1,350
112.4	Summit, ground	1,451
117.0	Caribou lake, water	1,236
117.5	Summit, ground	1,397
118.7	Manitou lake, water	1,215
119.5	Lake Harris	1,223
120.9	Lake, water	1,277
123.3	Summit, ground	1,414
124.0	Lake, water	1,283

MAIN LINE—ORIGINAL LOCATION

Miles from
E. Selkirk

Selkirk to Kamloops

0.0	East Selkirk, leaves present main line, Canadian Pacific railway, 1,400.1 miles from Montreal	744
1.5	Red river, extreme high water (1826), 731; flood (1852), 725; ordinary high water, 721; bed, 697; ice (1876)	711
9.9	"Korma"	750
18.7	"Cowper"	761
24.4	Summit, ground	861
28.7	"Acadie"	898
37.4	"Cottonwood"	902
38.9	Summit	909
46.0	"Carlyle"	868
46.6	Shoal lake, high water, 856; grade	860

*Names in quotation marks were proposed stations on the old location.

CANADIAN PACIFIC RAILWAY

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CANADIAN PACIFIC RAILWAY—TRIAL LINES
AND LOCATIONSElevation
above mean
sea level

MAIN LINE—ORIGINAL LOCATION

Miles from
E. Selkirk*Selkirk to Kamloops*

55.5	"Moustrie"	
64.3	"Eldon"	865
71.0	"Borodino"	857
79.4	"Grattan"	854
86.8	"Gough"	837
88.9	Summit, ground	835
94.4	"Donnacona"	838
96.0	Dog lake, water, 815; grade	822
104.1	"Vapna"	819
107.1	Lake Manitoba at "narrows," high water, 814.5; low water, 808.5; water (Dec., 1874), 810; grade	819
109.4	"Cartier"	824
120.8	"Novrad"	841
129.6	"Braidwood"	825
133.9	Crane river, water	840
138.3	"Speke"	835
146.6	"Logan"	855
155.3	"Haywood"	846
163.4	"Hogarth"	845
164.2	Brook, water	848
171.7	Mossy river, water, 830; grade	829
172.3	"Poutrincourt"	839
177.8	Brook, high water, 832; low water	846
179.5	"Vandyck"	829
187.7	"Blackwood"	838
188.6	Brook, high water, 916; ordinary water	924
191.6	"944"	913
195.7	"Longueville"	942
195.9	Pine river, water	965
203.3	Duck river South, water, 1,025; grade	955
204.3	"Sussex"	1,031
213.0	Duck river North, high water, 1,168; ordinary water	1,040
213.5	"Petrovka" (at north end of Duck mountain)	1,166
214.4	Summit, ground, 1,238; grade	1,189
216.3	Lake, water	1,207
220.5	"Northcote"	1,172
229.3	"Hennepin"	1,174
231.8	West branch Favell river, high water, 1,154; ordinary water, 1,149; grade	1,173
237.7	"Coleridge"	1,162
240.9	Roaring river, high water, 1,182; ordinary water, 1,180; grade	1,211
245.2	"Erskine"	1,219
254.6	"Skalholt"	1,286
256.2	Bears-head creek, high water, 1,341; ordinary water, 1,341; grade	1,384
264.3	"Doyle"	1,372
271.9	"Livingstone" (8½ miles north of Fort Pelly)	1,455
273.3	Snake creek, high water, 1,396; ordinary water, 1,395; grade	1,506
278.8	Old-wives creek, ordinary water	1,476
283.8	"Alice"	1,551
286.1	Lake, water	1,640
286.1	"Malino" (summit)	1,669
		1,739

CANADIAN PACIFIC RAILWAY—TRIAL LINES
AND LOCATIONSElevation
above mean
sea level

MAIN LINE—ORIGINAL LOCATION

Miles from
E. Selkirk*Selkirk to Kamloops*

287.6	Lake, water.	1,711
291.7	Stoney	1,684
292.5	"Morland"	1,706
302.1	East branch Assiniboine river, high water, 1,636; ordinary water, 1,634; grade	1,689
302.9	"Assiniboine"	1,701
309.9	South branch Assiniboine river, high water, 1,678; ordinary water, 1,677; grade	1,704
310.6	"Leyden"	1,721
313.3	Depression	1,663
320.4	"Stopford"	2,013
322.5	Summit	2,037
330.5	"Nut Hill"	1,977
339.3	Pond, water, 1,917; grade	1,922
341.7	"Murchison"	1,862
348.4	Mink lake, water	1,805
350.4	"Killyleagh"	1,816
358.1	Cygnets lake, high water, 1,786; ordinary water, 1,785; grade	1,791
359.5	"Thackeray"	1,800
362.3	Raspberry lake, high water, 1,787; ordinary water	1,785
368.6	"Nasmyth" (near Quill lake)	1,795
377.3	"Buckstone" (summit)	1,847
385.0	Muddy creek, water, 1,784; grade	1,792
387.7	"Thorwaldsen"	1,821
394.3	Summit, grade	1,891
395.8	"Swanholm"	1,882
396.4	Carlton and Quill lake trail, grade and ground	1,881
400.7	Lake, water, 1,829; grade	1,836
406.0	"Humboldt"	1,870
414.4	"Gotland"	1,826
417.4	Carlton (Middle ferry) trail	1,813
420.3	Summit	1,877
422.6	"Denholm"	1,850
425.9	Pond, water, 1,785; grade	1,819
426.9	Carlton (Upper ferry) trail	1,848
432.8	"Baldwin"	1,866
436.4	Summit	1,896
443.7	"Grenoble"	1,809
451.1	Depression	1,676
453.7	"Finland"	1,714
460.4	"Roundell"	1,690
467.7	"Saskatchewan"	1,639
469.3	South Saskatchewan river near present Canadian Northern railway bridge, high water, 1,528; ordinary water, 1,514; grade	1,594
475.3	"Oldred"	1,670
482.4	Summit	1,703
484.5	Trail crossing	1,695
484.7	"Goulburn"	1,697
495.3	"Bethlehem"	1,638
503.5	"Caerlaverock"	1,536
509.3	Eaglehill creek, high water, 1,475; low water, 1,461; grade	1,504
515.3	"Normanfield"	1,512
516.3	Stream, high water, 1,477; grade	1,508

CANADIAN PACIFIC RAILWAY

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CANADIAN PACIFIC RAILWAY—TRIAL LINES
AND LOCATIONSElevation
above mean
sea level

MAIN LINE—ORIGINAL LOCATION

Selkirk to Kamloops

Miles from E. Selkirk		
525.6	"Ronalds"	
527.7	Summit	1,561
534.1	"Raith"	1,674
543.1	"Eagle Hill"	1,586
551.6	"Hecla"	1,564
555.5	"Hecla"	1,606
558.0	Battle river, high water, 1,518; ordinary water, 1,510; grade	1,575
566.1	"Battleford"	1,564
568.0	"Coalbrook"	1,609
574.0	Summit	1,678
584.6	"Wolfhill"	1,709
586.3	Lake, high water, 1,751; ordinary water, 1,749; grade	1,698
596.8	Nabikwan	1,753
605.3	"B"	1,779
613.0	"C"	1,819
614.0	Fort Pitt trail	1,922
614.3	Summit	2,099
617.6	"D"	2,109
619.6-621.8	Stream, bed, 2,027; grade	2,106
626.3	Depression, ground	2,036
629.7	"E"	2,007
636.3	Willow hill (summit)	2,015
638.9	"F"	2,092
642.6	Blackfoot coulée, grade	2,119
645.3	Blackfoot Hills summit, ground, 2,210; grade	2,051
646.4	Depression	2,180
648.8	Summit, ground, 2,176; grade	2,110
650.5	"G"	2,158
658.3	Lake, high water, 2,044; grade	2,095
659.1	"H"	2,056
666.3	Summit	2,159
669.0	"Grizzly Bear"	2,169
675.9	Grizzly Bear coulée, high water, 1,905; ordinary water, 1,903; grade	2,139
679.3	Summit, ground, 2,318; grade	2,064
683.3	"I"	2,311
690.8	Summit	2,204
691.9	"K"	2,289
695.3	Buffalo coulée, high water, 2,138; ordinary water, 2,132; grade	2,234
701.8	Summit	2,229
712.3	"L"	2,364
724.3	"M"	2,319
726.6	"N"	2,319
734.3	Vermilion river, water, 2,220; grade	2,237
743.3	"O"	2,228
753.8	"P"	2,281
764.3	"Q"	2,357
770.2	"R"	2,467
775.3	Summit, ground	2,494
783.6	"S"	2,549
784.8	Coulée, bed, 2,259; grade	2,494
788.1	Depression, grade	2,354
	"Edmonton," sec. 26, tp. 49, R. XXV, west of 4th meridian*	2,331
		2,407

*Near present Leduc.

CANADIAN PACIFIC RAILWAY—TRIAL LINES
AND LOCATIONSElevation
above mean
sea level

MAIN LINE—ORIGINAL LOCATION

Miles from
E. Selkirk*Selkirk to Kamloops*

799.3	"Grandin".....	2,371
808.8	North Saskatchewan river, extreme high water, 2,114; low water (April 6, 1876), 2,094; grade.....	2,191
811.8	"Siksika".....	2,311
817.8	Summit, ground, 2,497; grade.....	2,481
821.0	"Laplaire".....	2,413
824.8	Cart trail, old White Mud fort to Edmonton, ground, 2,374; grade.....	2,391
828.3	Wabamun brook, water, 2,246; grade.....	2,339
830.4	"Palliser".....	2,404
833.5	Summit, ground, 2,531; grade.....	2,513
836.3	Wabamun lake, water, 2,369; grade.....	2,373
839.0	Summit, ground, 2,418; grade.....	2,416
842.0	"Belcour".....	2,398
846.0	Stream, bed, 2,363; grade.....	2,380
849.8	Summit, ground, 2,491; grade.....	2,476
854.8	"Lobstick".....	2,509
858.1	Pembina river, high water, 2,327; ordinary water, 2,315; grade.....	2,402
859.7	Lobstick brook " 2,343 " 2,335 " " 2,387	2,436
861.4	" " " 2,421 " 2,413 " " 2,488	2,488
862.5	" " " 2,458 " 2,450 " " 2,577	2,577
866.2	"Langlade".....	2,640
869.7	Summit, ground and grade.....	2,679
876.2	"Southesk".....	2,705
883.2	Crane river, water, 2,680; grade.....	2,754
886.8	"Cheadle".....	2,816
892.5	Lobstick brook, high water, 2,795; ordinary water, 2,785; grade.....	3,017
896.8	Summit, ground, 3,028; grade.....	2,892
899.4	Moose river, high water, 2,852; ordinary water, 2,846; grade.....	2,912
900.3	"Root River".....	2,918
901.7	Root river, high water, 2,901; ordinary water, 2,898; grade.....	3,045
907.6	Summit between Pembina and McLeod rivers, ground.....	2,933
912.0	Wolf river, high water, 2,909; ordinary water, 2,903; grade.....	3,037
914.3	"Lacombe".....	3,000
922.4	"Montbrun".....	2,985
928.1	McLeod river, high water, 2,938; ordinary water, 2,929; grade.....	3,054
931.4	"McLeod".....	3,128
935.5	Medicine Lodge creek, high water, 3,110; ordinary water, 3,106; grade.....	3,392
942.0	"Beaver" (summit), ground, 3,394; grade.....	3,459
952.0	"Vallée".....	3,562
955.3	Summit, ground, 3,573; grade.....	3,359
960.3	"Ponoka".....	3,162
965.4	Stream, water, 3,139; grade.....	3,217
972.1	"Bayonette" ("Hardisty"), ground, 3,215; grade.....	3,188
978.5	Prairie river, water, 3,157; grade.....	3,267
980.0	Summit, ground, 3,293; grade.....	3,250
982.3	"Hector".....	3,233
987.4	Athabaska river, high water, 3,201; grade.....	3,237
991.9	"Grand Portal".....	3,224
1,001.5	Athabaska river, water, 3,218; grade.....	3,235
1,001.7	"Jasperia," ground, 3,233; grade.....	3,313
1,004.4	Athabaska river, water, 3,304; grade.....	3,263
1,007.8	Jasper lake (Athabaska river), water, 3,256; grade.....	

CANADIAN PACIFIC RAILWAY

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CANADIAN PACIFIC RAILWAY—TRIAL LINES
AND LOCATIONSElevation
above mean
sea level

MAIN LINE—ORIGINAL LOCATION

Miles from
E. Selkirk*Selkirk to Kamloops*

1,010.8	"Miniwakan"	3,268
1,015.8	Snaring river, water, 3,303; grade	3,308
1,020.9	"Athabaska"	3,353
1,023.7	Athabaska river, water, 3,324, grade	3,332
1,030.7	"Miette"	3,447
1,031.0	Miette river, 1st crossing, water, 3,436; grade	3,443
1,038.1	" " 2nd crossing, bed, 3,605; grade	3,620
1,039.5	"Summit Meadow," ground, 3,622; grade	3,621
1,043.5	Miette river, 3rd crossing, bed, 3,703; grade	3,707
1,043.6	Summit, Yellowhead pass, 1,450.8 miles from lake Superior —	
	Ground, by C. P. Ry. levels from lake Superior ...	3,719
	" " G. T. P. Ry. levels from Winnipeg ...	3,720
	" " " " Prince Rupert	3,722.5
	" " C.N. Ry. levels from Winnipeg	3,720
	Mean	3,720
1,045.7	"Yellowhead"	3,663
1,046.1	Yellowhead lake, high water, 3,635; water (Sept., 1875)	3,632
1,049.6	Fraser river, water, 3,617; grade	3,674
1,053.6	" " 3,507; "	3,584
1,056.4	"Wastedo"	3,512
1,062.9	"Moose Lake"	3,434
1,064.9	Moose lake, high water, 3,404; water (Oct., 1875)	3,399
1,071.8	"Fraser"	3,429
1,072.6	Fraser river, high water, 3,379; ordinary water, 3,377; grade ...	3,419
1,081.7	Glacier brook, water, 2,989; grade	3,019
1,081.8	Bute Inlet line diverges to north-west at this point	3,015
1,101.6	Cranberry lake, water, 2,580; grade	2,585
1,103.2	Summit, ground, 2,682; grade	2,653
1,105.0	Canoe river, water, 2,559; grade	2,574
1,107.1	Camp river, water, 2,578; grade	2,588
1,112.8	Camp river, high water, 2,789; grade	2,794
1,114.7	Albreda summit, between Canoe and North Thompson rivers—	
	Grade by levels from summit of Yellowhead pass, 2,869; ground	2,886
	" " " " Burrard inlet, 2,887; ground	2,904
NOTE.—From this summit to Kamloops the levels are based on mean sea level at Burrard inlet.		
1,116.3	Albreda lake, high water, 2,861; grade	2,867
1,120.5	Albreda river, water, 2,753; grade	2,770
1,123.5	Albreda river, 3 miles above confluence with North Thompson, high water, 2,609; low water, 2,607; grade	2,634
1,128.3	North Thompson river, near mouth of Albreda river, high water, 2,409; low water, 2,404; grade	2,414
1,134.8	North Thompson river, high water, 2,325; low water, 2,321; grade	2,352
1,145.7	North Thompson river, high water, 2,269; low water, 2,265; grade	2,299
1,147.2	Green river, 2,000 feet from mouth, high water, 2,278; low water, 2,276; grade	2,281
1,147.3	"Horsetail"	2,281
1,152.7	"Grand Prairie"	2,230
1,154.2	North Thompson river, high water, 2,219; low water, 2,210; grade	2,227
1,155.6	Blue river, 1 mile from mouth, high water, 2,225; low water, 2,211; grade	2,235
1,161.6	"Meadow Patch," ground, 2,213; grade	2,205

CANADIAN PACIFIC RAILWAY—TRIAL LINES
AND LOCATIONSElevation
above mean
sea level

MAIN LINE—ORIGINAL LOCATION

Miles from
E. Selkirk*Selkirk to Kamloops*

1,163.0	North Thompson river at "Burrard's cache" (end of portage), water.....	2,193
1,165.8	"Porcupine".....	2,161
1,168.1	North Thompson river, head of cañon, high water, 2,079; low water, 2,064; grade.....	2,096
1,172.3	North Thompson river, head of stillwater, high water, 1,932; low water, 1,925; grade opposite.....	1,984
1,174.8	"Quartzite".....	1,915
1,179.2	"Stillwater".....	1,910
1,185.1	"Floating Bridge".....	1,903
1,185.1	North Thompson river, high water, 1,900; low water.....	1,895
1,191.4	North Thompson river, at head of Little cañon, high water, 1,809; low water.....	1,803
1,193.2	"Round Prairie," ground, 1,845; grade.....	1,935
1,194.9	North Thompson river, high water, 1,727; low water, 1,722; grade opposite.....	1,809
1,197.8	Mad river, high water, 1,680; low water, 1,678; grade.....	1,725
1,197.8	North Thompson river, at mouth of Mad river, high water, 1,669; low water.....	1,665
1,198.8	North Thompson river, high water, 1,641; low water, 1,634; grade.....	1,722
1,204.9	" " " " 1,522 " 1,517 "	1,535
1,214.9	" " " " 1,407 " 1,403 "	1,415
1,216.2	"Marten".....	1,397
1,221.3	North Thompson river, at mouth of Raft river, high water, 1,351; low water, 1,346; grade opposite.....	1,371
1,225.1	North Thompson river, at mouth of Clearwater river, high water, 1,328; low water, 1,321; grade opposite.....	1,345
1,231.8	"Mosquito".....	1,305
1,235.1	North Thompson river, at Assiniboine ridge, high water, 1,295; low water, 1,286; grade opposite (cut 43 feet).....	1,325
1,250.1	North Thompson river, opposite church on Indian reserve, high water (1876), 1,265; low water.....	1,255
1,250.9	"Reserve," ground, 1,274; grade.....	1,266
1,257.4	North Thompson river at White Clay bluffs, high water, 1,257; low water.....	1,248
1,264.0	North Thompson river at head of cañon, high water, 1,235; low water.....	1,224
1,268.3	North Thompson river at foot of cañon, high water, 1,218; low water, 1,207; grade opposite.....	1,235
1,269.3	"Fish Trap".....	1,220
1,277.0	"Kenough".....	1,220
1,282.6	North Thompson river at Jamieson bluff, high water, 1,175; low water.....	1,163
1,284.7	"Meridian Bend".....	1,210
1,293.9	"St. Paul".....	1,169
1,293.9	North Thompson river, high water, 1,146; low water.....	1,136
1,298.1	South Thompson river " 1,143; " 1,133; grade.....	1,160
1,298.6	Kamloops; at this point it joins the Canadian Pacific railway, main line, 2,648.7 miles from Montreal.....	1,159

CANADIAN PACIFIC RAILWAY

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CANADIAN PACIFIC RAILWAY—TRIAL LINES AND LOCATIONS

Elevation
above mean
sea level

PROJECTED MAIN LINE SOUTH OF LAKE MANITOBA

Miles from
E. Selkirk

"Minnedosa" Line

0.0	East Selkirk, east bank of Red river, grade.....	744
0.4	Red river, freshet (1852), 728; (1826), 734; ice (1876).....	714
10.4	Marsh, sec. 25, tp. 13, R. III, east of 1st mer., water, 756; grade.....	757
19.8	Junction with Stonewall branch, sec. 2, tp. 13, R. II, E., rail.....	772
28.7	Summit, ground and grade.....	813
29.1	Principal meridian, sec. 30, tp. 13.....	806
48.1	Long lake, sec. 22, tp. 13, R. IV, W., water, 802; grade.....	805
59.9	Sec. 28, tp. 13, R. IV, W., ground, 813; grade.....	815
64.4	Portage brook, water, 814; grade.....	824
74.8	Rat " " 831 ".....	834
91.2	Squirrel " " 907 ".....	912
96.2	Pine brook, high water, 935; low water, 931; grade.....	945
103.5	Line between sec. 6, R. XII, W., and sec. 1, R. XIII, tp. 13 (old boundary between Manitoba and North West Territories).....	1,019
109.3	Summit, sec. 6, tp. 13, R. XIII, W., ground, 1,303; grade.....	1,295
117.6	Willow or Boggy brook, sec. 24, tp. 13, R. XV, W., bed, 1,228; grade.....	1,258
126.9	Brook, sec. 9, tp. 14, R. XVI, W., bed, 1,395; grade.....	1,412
136.7	Summit, sec. 5, tp. 15, R. XVII, W., ground, 1,798; grade.....	1,795
141.3	Little Saskatchewan river, sec. 4, tp. 15, R. XVIII, W., water, 1,645; grade.....	1,662
142.9	Brook, sec. 5, tp. 15, R. XVIII, W., bed, 1,726; grade.....	1,795
150.8	Long lake, tp. 15, R. XIX, W., water, 1,929; grade.....	1,945
161.2	Summit, ground, 2,008; grade.....	2,004
174.3	Lake, water, 1,869; grade.....	1,873
180.0	Oak river, water, 1,892; grade.....	1,905
189.5	Summit, ground, 2,044; grade.....	2,035
191.4	Brook, bed, 1,977; grade.....	1,993
195.4	Summit, ground, 2,023; grade.....	2,013
197.2	Brook, bed, 1,740; grade.....	1,789
201.3	Birdtail brook, bed, 1,688; grade.....	1,705
203.4	Shell River trail, ground, 1,742; grade.....	1,749
206.4	Brook, bed, 1,897; grade.....	1,915

Miles from
old boundary
of Manitoba

"Rapid City and Odonah" Line

0.0	Zero is near the N. E. corner of sec. 25, tp. 12, R. XIII, and on the line between R. XII and XIII (old western boundary of Manitoba) and 1.5 miles south of the "Minnedosa" line at 103.48 miles from Selkirk.....	1,038
10.0	Ground and grade, sec. 28, tp. 12, R. XIV, W.....	1,285
15.3	Boggy or Willow brook, sec. 27, tp. 12, R. XV, W., water, 1,246; grade.....	1,256
16.0	Summit, sec. 27, tp. 12, R. XV, W., grade and ground.....	1,277
23.3	South Saskatchewan trail, S.E. corner sec. 4, tp. 13, R. XVI, W.....	1,317
29.3	Brook, sec. 4, tp. 13, R. XVII, W., water, 1,495; grade.....	1,502
35.0	Sec. 9, tp. 13, R. XVIII, W., ground, 1,675; grade.....	1,670
39.0	Summit, sec. 14, tp. 13, R. XIX, W., ground, 1,776; grade.....	1,775
40.2	"Rapid City" station ground, sec. 15, tp. 13, R. XIX, W., grade.....	1,767
45.1	Little Saskatchewan river, sec. 19, tp. 13, R. XX, W., bed, 1,543; grade.....	1,566
50.0	Grade and ground.....	1,800

CANADIAN PACIFIC RAILWAY—TRIAL LINES
AND LOCATIONSElevation
above mean
sea level

Miles from old boundary of Manitoba	PROJECTED MAIN LINE SOUTH OF LAKE MANITOBA	
	<i>"Rapid City and Odonah" Line</i>	
55.0	Grade and ground.....	1,844
60.0	".....	1,840
65.0	".....	1,824
67.4	Brook, water, 1,801; grade.....	1,815
70.0	Ground, 1,815; grade.....	1,808
75.5	Raven lake, water, 1,791; grade.....	1,794
75.7	Shoal lake, water, 1,793; grade.....	1,796
79.1	Three-mile brook, water, 1,789; grade.....	1,794
86.1	Arrow river, water, 1,771; grade.....	1,782
90.0	Ground and grade.....	1,782
94.8	Birdtail brook, near line between secs. 15 and 16, tp. 18, R. XXVI, water, 1,590; grade.....	1,620
97.7	Sec. 25, tp. 18, R. XXVI, W., ground, 1,731; grade.....	1,723
102.6	Summit, Waywayseecappo reserve, ground, 1,833; grade.....	1,828
106.5	Brook, sec. 29, tp. 19, R. XXVI, bed, 1,809; grade.....	1,816
110.7	Sec. 11, tp. 20, R. XXVII, W., grade and ground.....	1,836
114.4	Brook, sec. 20, tp. 20, R. XXVII, W., bed, 1,819; grade.....	1,832
116.9	Summit, sec. 36, tp. 20, R. XXVIII, W., ground, 1,878; grade....	1,872
119.6	Fort Ellice trail, near Russell, sec. 3, tp. 21, R. XXVIII, W., ground, 1,816; grade.....	1,818
121.1	Skunk creek, sec. 9, tp. 21, R. XXVIII, W., water, 1,786; grade.....	1,890
122.5	Summit, sec. 17, tp. 21, R. XXVIII, W., ground, 1,809; grade....	1,802
130.3	Thunder brook, sec. 23, tp. 22, R. XXIX, water, 1,583; grade....	1,637
136.1	Assiniboine river, sec. 2, tp. 23, R. XXIX, high water, 1,363; low water, 1,354; grade.....	1,372
137.2	Trail, Pelly to Shoal lake, sec. 12, tp. 23, R. XXIX, grade and ground.....	1,384
140.2	Stream, sec. 25, tp. 23, R. XXIX, water, 1,445; grade.....	1,545
144.9	Trail, Pelly to Shoal lake, sec. 4, tp. 24, R. XXIX, grade and ground.....	1,646
149.1	Trail, Pelly to Ellice, sec. 14, tp. 24, R. XXX, ground, 1,646; grade.....	1,648
159.4	N.W. corner sec. 4, tp. 25, R. XXXI, W. of 1st. mer., grade and ground.....	1,741
172.7	S.W. corner sec. 24, tp. 26, R. I, W. of 2nd mer., ground, 1,721; grade	1,722
182.7	N.W. corner sec. 23, tp. 27, R. II, W. of 2nd mer., ground, 1,674; grade.....	1,677
191.5	Trail, Qu'Appelle to Pelly, sec. 22, tp. 28, R. III, W., ground, 1,605; grade.....	1,609
198.1	White-sand river, sec. 14, tp. 29, R. IV, W., water, 1,551; grade....	1,572
200.1	Surprise river, sec. 22, tp. 29, R. IV, W., water, 1,563; grade.....	1,574
212.7	Ground, N.E. corner sec. 30, tp. 30, R. V, W. of 2nd mer.....	1,599
219.5	Stream, sec. 29, tp. 31, R. VI, W., water.....	1,603
220.1	Devil creek, at crossing of Touchwood and Pelly trail, sec. 30, tp. 31, R. VI, W., water.....	1,608
228.8	End of profile, S.E. corner, sec. 36, tp. 31, R. VIII, W. of 2nd mer., ground.....	1,785
	<i>Junction Line—"Rapid City and Odonah" Line to "Minnedosa" Line</i>	
10.0	Sec. 28, tp. 12, R. XIV, W. 1st mer., grade.....	1,285
15.9	Boggy or Willow brook, sec. 11, tp. 13, R. XV, water, 1,260; grade	1,267

Miles from
old boundary
of Manitoba

CANADIAN PACIFIC RAILWAY

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CANADIAN PACIFIC RAILWAY—TRIAL LINES
AND LOCATIONSElevation
above mean
sea level

Miles from old boundary of Manitoba		Junction Line—"Rapid City and Odonah" Line to "Minnedosa" Line	
21.0	Boggy or Willow brook, sec. 29, tp. 13, R. XV, water, 1,249; grade		1,259
29.4	Stream, sec. 24, tp. 14, R. XVII, water, 1,547; grade		1,557
32.2	Pond, sec. 27, tp. 14, R. XVII, water		1,664
35.6	Junction with "Minnedosa" line		1,801
Miles from Java		BUFFALO LAKE BRANCH (Projected)	
0.00	Java, junction with main line, 1,931.1 miles from Montreal		2,459
5.50	Depression, sec. 8, tp. 16, R. XV, W. of 3rd mer., ground		2,371
10.40	Summit " 7 " 16 " XV " " " " "		2,418
13.60	Depression " 30 " 16 " XVI, " " " " "		2,354
16.00	Summit " 27 " 17 " XVII, " " " " "		2,425
20.00	Depression " 5 " 17 " XVII, " " " " "		2,367
23.80	Summit " 14 " 17 " XVIII, " " " " "		2,423
31.00	Snake Holes valley, sec. 35, tp. 17, R. XIX, W. of 3rd mer., ground, 2,199; grade		2,243
35.00	Summit, sec. 7, tp. 18, R. XIX, W. of 3rd mer., ground		2,343
40.00	Grade " 21 " 18 " XX " " " " "		2,280
50.00	" 20 " 19 " XXI " " " " "		2,302
58.80	Summit " 1 " 20 " XXIII " " " " "		2,379
60.00	Grade " 2 " 20 " XXIII " " " " "		2,345
64.10	Summit " 16 " 20 " XXIII " " " " "		2,416
69.00	Depression " 34 " 20 " XXIV " " " " "		2,328
71.20	Summit " 4 " 21 " XXVI " " " " "		2,393
83.00	Depression " 34 " 21 " XXVII " " " " "		2,195
88.65	Summit " 11 " 21 " XXVII " " " " "		2,254
96.31	Stream " 34 " 22 " XXVII " " " " "		2,202
101.30	South Saskatchewan river, sec. 8, tp. 23, R. XXVIII, W. of 3rd mer. (2.3 miles below mouth of Red Deer river), water (June 11, 1890), 1,897; grade		1,921
113.80	Stream, sec. 30, tp. 23, R. I, W. of 4th mer., bed, 2,054; grade		2,111
118.36	Grade " 10 " 24 " II " " " " "		2,255
121.00	Stream " 17 " 24 " II " " " " "		2,248
125.31	Ground " 22 " 24 " III " " " " "		2,478
127.50	Depression " 29 " 24 " III " " " " "		2,433
132.65	Summit " 10 " 24 " IV " " " " "		2,628
135.00	Depression " 21 " 25 " IV " " " " "		2,593
137.82	Summit " 25 " 25 " V " " " " "		2,696
141.39-142.96	Level, secs. 33 to 31, tp. 25, R. V " " " " "		2,473
146.00	Summit, sec. 34, tp. 25, R. VI " " " " "		2,587
151.35	Depression " 2 " 26 " VII " " " " "		2,443
160.87	Summit " 21 " 26 " VIII " " " " "		2,816
163.40	Depression " 31 " 26 " VIII " " " " "		2,651
164.50	Summit " 6 " 27 " VIII " " " " "		2,716
167.75	Blood Indian ck. " 27 " IX " " " " "		2,533
174.40	Summit " 28 " X " " " " " "		2,675
190.47	Berry creek " 29 " XI " " " " " "		2,547
200.39	Stream " 31 " XII " " " " " "		2,548
202.40	Summit " 31 " XII " " " " " "		2,613
204.35	Stream " 31 " XII " " " " " "		2,604
208.80	Stream " 32 " XIII " " " " " "		2,652
214.67	Summit " 33 " XIII " " " " " "		2,708
223.68	End of profile, sec. 32, tp. line 34 and 35, R. XIII, W. of 4th mer., grade		2,712
	Lake Sullivan (nearly)		2,70

*From this point to 38.15 miles, this line and the Burrard Inlet line are coincident.

CANADIAN PACIFIC RAILWAY—TRIAL LINES
AND LOCATIONSElevation
above mean
sea levelMiles from
Yellowhead
Summit

BUTE INLET ROUTE

Yellowhead Summit to Bute Inlet

366.6	Trail from Alexis lake to Alexandria, grade	2,983
369.7	Nazko river, foot of cañon, high water, 2,985; water, 2,976; grade	2,996
378.1	Nazko river, head of cañon, water, 3,430; grade	3,443
390.6	Summit between Nazko and Chilcotin rivers, ground	3,633
406.0	Chizikut lake, water	3,254
406.8	Chilcotin river, water, 3,246; grade	3,301
412.9	Summit, ground, 3,486; grade	3,478
417.0	Puntzee lake, water	3,121
427.5	Chilanko river, water, 2,954; grade	2,786
432.5	Le Blanc lake, water	3,064
434.0	Loon lake, water	3,088
447.0	Eagle lake, water	3,468
452.2	Summit between Chilcotin and Homathko rivers, ground, 3,530; grade	3,511
469-484	Tatlayako lake, water	2,723
486.0	Homathko river, water, 2,629; grade	2,641
492.0	" at mouth of Moosmoos creek, water, 2,348; grade	2,359
501.9	" water, 1,708; grade	1,731
503.8	" at head of Great cañon, water	1,563
506.9	West branch Homathko river, 0.71 mile from confluence with main stream, water, 1,191; grade	1,211
507.2	Tiedeman brook, water, 1,179; grade	1,211
512.0	Homathko river, Murderer bar, water, 706; grade	736
515.3	Homathko river, Waddington cañon, water, 355; grade	408
518.9	Bellacoola river, high water, 397; low water, 393; at confluence with Homathko river, 369; grade	406
526.0	Homathko river, water, 171; grade	203
544.0	Bute inlet, high tide + 6; low tide - 6; grade	18

DEAN INLET LINE

*By Dean or Salmon River Route*Miles from
Yellowhead
Summit

315.58	Leaves Bute Inlet line near confluence of Black water and Iscultaesli rivers	2,593
328.71	Iscultaesli river, bed, 2,746; grade	2,786
334.06	Summit between Blackwater and Iscultaesli rivers, ground, 3,255; grade	3,245
364.23	Fort George and B.C. trail, grade and ground	3,155
370.50	Euchiniko lake, water, 3,129; grade	3,167
380.00	Tsacha lake, water	3,292
389.77	Blackwater river, water, 3,410; grade	3,414
413.75	Summit between Nechako and Blackwater rivers, ground, 3,725; grade, 1.32 miles west	3,697
423.95	Gatcho lake, water, 3,527; grade	3,567
424.82	Summit between Nechako and Dean rivers, ground, 3,593; grade	3,583
427.83	Lily lake, water, 3,540; grade	3,562
446.08	Dean river, high water, 3,014; low water, 3,005; grade	3,037
458.00	Grassy lake, water, 2,455; grade	2,460
467.31	Dean river, high water, 1,351; low water, 1,313; grade	1,467
472.00	" at bluff, high water, 1,075; low water, 1,069; ground, 1,185; grade	1,140
479.40	Dean river, water, 743; grade	761

CANADIAN PACIFIC RAILWAY—TRIAL LINES
AND LOCATIONSElevation
above mean
sea levelMiles from
Yellowhead
Summit

DEAN INLET LINE

By Dean or Salmon River Route

488.45	Dean river, water, 358; grade	368
498.38	" foot of cañon, water, 53; grade	133
500.45	Tidewater, Dean inlet	0

By Nechako River Route

256.87	Leaves Bute Inlet line near confluence of Nechako and Chilako rivers	2,010
256.98	Chilako river, high water, 1,969; low water, 1,967; grade	2,010
276.52	Nechako river, high water, 2,067; low water, 2,061; grade	2,140
288.17	Nechako river, high water, 2,088; low water, 2,081; grade	2,097
294.49	Nechako river, at mouth Eulatazela creek, high water, 2,109; low water	2,105
300.57	Telegraph trail, ground, 2,447; grade	2,421
312.00	Tsinkut lake, high water, 2,391; grade	2,417
317.00	Noolki lake, high water, 2,380; water, 2,377; grade	2,399
320.00	Tachick lake, high water, 2,350; water, 2,347; grade	2,409
332.06	Summit, ground, 2,746; grade	2,706
344.85	Depression, ground, 2,354; grade	2,374
361.30	Summit, ground, 2,715; grade	2,697
369.20	Nechako river at Great bend, ground opposite, 2,698; grade	2,647
379.70	Nechako river, high water, 2,634; water	2,630
392.90	Natalkuz lake, high water, 2,653; water, 2,647; grade	2,661
405.80	Entiako river, high water, 2,967; water, 2,965; grade	2,994
415.70	Eutiakwetachick lake (Entiako river), water, 2,978; grade	2,998
430.10	Summit between Nechako and Dean rivers, ground, 3,098; grade	3,102
437-441	Qualcho lake, water	2,765
454.60	Itasyouko river, high water, 2,624; water	2,622
461.67	Itasyouko river, at confluence with Dean river, high water, 2,331; low water, 2,321; grade	2,411
464.54	Dean river, 1st crossing, high water, 1,922; water, 1,913; grade	1,945
466.55	Dean river, 2nd crossing, high water, 1,716; water, 1,707; grade	1,825
473.90	Yeltesse or Salmon House, ground, 1,469; grade	1,453
474.13	Dean river, 3rd crossing, high water, 1,310; water, 1,288; grade	1,451
488.40	Dean river, high water, 624; water	620
498.90	Dean river, high water, 256; water	253
507.90	Dean inlet, grade	21

Miles from
Gardner Inlet

GARDNER INLET LINE

0.00	Gardner inlet, tidewater	0
8.81	Beginning of steep ascent, grade	181
11.95	Kemano river, at head of falls (falls 214 ft. in 1,000), water, 1,205; grade	1,216
16.29	Stream, water, 2,648; grade and ground	2,656
18.10	Siffleur lake, water	3,753
18.80	Summit, ground	4,025
21.83	First lake, water, 2,783; grade	42

CANADIAN PACIFIC RAILWAY—TRIAL LINES
AND LOCATIONSElevation
above mean
sea level

*BUTE INLET TO YELLOWHEAD PASS

Via Quesnel

Miles from
Butte Inlet

0	Butte inlet, tidewater	0
70	Tatlayako lake	2,723
96	Summit, ground	3,530
114	Tatla lake	3,018
130	Summit	3,500
140	Chilcotin river	3,246
147	Summit	3,633
177	Nazko river	2,980
207	Buche creek	2,560
232	Fraser river at Quesnel	1,600
244	Cottonwood river	2,400
266	Beaver pass, summit	3,520
278	Willow river	2,550
296	Valley Creek summit	3,730
302	Bear lake	3,220
310	Indian Point lake	3,200
320	Isaac lake	3,180
331	Goat River summit	3,750
340	Goat river	3,030
350	Goat river	2,610
477	Summit of Yellowhead pass	3,739

HOWE SOUND LINE

Via Lillooet and Bonaparte River

Miles from
Howe Sound

0.0	Tidewater, Pacific ocean at head of Howe sound	0†
8.7	Tcharkamist river, water	134
14.0	Minatch river, water	379
23.1	Daisy lake, water	1,187
28.2	Forks of Tcharkamist river, bank, 1,657; water	1,632
30.4	East branch Tcharkamist river, water	1,732
33.5	Green lake, No. 1, high water, 2,072; low water	2,070
34.0	Green lake, No. 2, high water, 2,092; low water	2,090
34.4	Summit	2,172
35.5	Green lake, No. 3, high water, 2,105; low water	2,103
38.0	Green lake, No. 4, high water, 2,086; low water	2,084
41.6	Green river, water	2,041
46.5	Cliff river, water	1,538
50.5	Tachawhame river, water	1,176
56.6	Lillooet river at Pemberton meadows, water	692
61.2	Birkenhead river, near confluence with Lillooet river, water	737
67.6	Glacier stream, water	1,237
73.0	Summit lake, high water, 1,582; low water	1,580
73.5	Summit, grade	1,634
79.0	Tchalnicht river, water	1,229
90.0	Anderson lake, high water, 858; low water	853
110.0	Seton lake, high water, 800; low water	795

*Approximate only

†From the head of Howe sound to beyond Lillooet (127 miles) this line follows the same route as the Pacific Great Eastern Ry.

CANADIAN PACIFIC RAILWAY—TRIAL LINES
AND LOCATIONSElevation
above mean
sea level

HOWE SOUND LINE

Via Lillooet and Bonaparte River

Miles from Howe Sound		
120.2	Cayoosh creek, water	740
120.7-122.2	Lillooet village	840-845
123.3	Fraser river, 700 feet north of mouth of Cayoosh creek, high water, 669; low water, 661; grade	814
127.1	Opposite Bridge river (line was 300 to 500 feet from Fraser river)	1,049
130.7	"The Fountain"—2,700 feet from Fraser river	1,364
132.0	Brook, 3,000 feet from Fraser river, bed, 1,261; grade	1,464
134.2	Brook, 3,000 feet from Fraser river, bed, 1,593; grade	1,645
146.0	Pavilion creek, 11,100 feet from mouth, bed	2,454
149-153	Pavilion lake, water	2,652
154-155	Crown lake, water	2,669
155.4	Marble cañon, summit	2,831
158.7	South end of cañon	2,722
161.2	Alkali brook, 1,400 feet from mouth, bed, 2,580; grade	2,713
163.4	Cap creek, 800 feet from Hat river, bed	2,593
171.2	Ground, 3,500 feet north-west of confluence of Bonaparte and Hat rivers	2,183
175.2	Maiden creek, at Mundorf's ranche, bed, 1,796; grade	1,868
182.6	Bonaparte river, water, 1,954; grade	1,973
187.3	Bonaparte river, water, 2,156; grade	2,194
188.6	Saul's ranche, ground	2,184
194.3	Bonaparte river, water	2,255
201.6	Bonaparte river, water	2,567
206.7	Old "Brigade" trail, ground	2,787
210.7	Forks of Bonaparte river, water	2,931
212.0	Bonaparte river, water, 2,950; grade	2,960
215.4	Bonaparte river, water, 3,021; grade	3,063
220.2	Lake, water	3,377
225.2	Lake, water	3,414
232.7	Bonaparte river, 5 feet wide, bed	3,661
236.2	Eureka lake, ground near, 3,830; water	3,761
238.0	Mukwistikwan lake, water	3,762
239.8	Summit	3,857
240.2	One-island lake, water	3,759
240.4	Horse lake, water	3,779
241.4	Wabigoon or White Flower lake, water	3,746
243.7	Frog lake, water	3,832
244.2	Half-moon lake, water	3,854
246.3	Lac des Roches	3,729
254.0	Echo lake	3,714
255.0	Last lake	3,704
256.1	Yehalston creek, bed, 3,610; grade	3,664
266.1	Brook, 15 ft. wide, bed	2,606
271.9	Brook, bed	1,990
275.3	Tranquille creek, 20 ft. wide, bed	1,674
278.1	North Thompson river, water	1,290
278.3	Junction with Burrard Inlet line, 6 miles below mouth of Clear- water river and 189 miles from summit of Yellowhead pass	1,296

CANADIAN PACIFIC RAILWAY—TRIAL LINES
AND LOCATIONSElevation
above mean
sea level

NORTH THOMPSON RIVER TO BUTE INLET*

By Clearwater River and Mahood Lake

Miles from Yellowhead Summit		
180	Junction with Burrard Inlet line.....	1,404
186	Clearwater river.....	1,477
204	Bridge creek, at mouth.....	1,809
208	Mahood lake.....	2,081
230	Canim lake.....	2,557
261	Summit between Clearwater and Fraser rivers.....	3,104
280	Lac la Hache.....	649
310	Williams lake.....	1,843
321	Fraser river, 9 miles below Soda creek, water, 1,381; grade.....	1,407
329	Chimney creek.....	1,774
374	Summit, Chilcotin plain.....	3,507
400	Junction of Chilcotin loop line.....	2,499
450	Tatla lake, water.....	3,018
471	Summit between Chilcotin and Homathko rivers.....	3,124
480	Bluff lake, water.....	2,865
490	Middle lake, water.....	2,645
497	Twist lake, water.....	2,523
514	Head of Great cañon.....	2,290
529	Foot of Great cañon.....	640
548	Bute inlet.....	0

CARIBOO ROAD TO CLEARWATER RIVER*

Waggon road, at crossing of 111-mile brook.....	2,720
Summit, between 111-mile brook and western stream to Canim lake.....	3,320
Eagle lake, water.....	2,700
Summit, between Eagle lake and eastern stream to Canim lake.....	3,250
Clearwater river, at junction of route to Blue river.....	3,250
Myrtle lake.....	3,650
Waterloo lake.....	4,000
Clearwater lake.....	2,480
Summit, between Clearwater river and Pike brook (branch of North Thompson river).....	7,400

OSBORNE AND MORDEN BRANCH
(Projected)

Miles from Osborne		
0.0	Osborne, junction with La Rivière branch.....	782
8.7	Sec. 29, tp. 6, R. 1, W.P.M.....	756
10.9	Tp. 6, line between R. 1-2, W.P.M.....	760
17.4	Tp. 5, line between R. 2-3, W.P.M.....	776
29.9	Tobacco brook, water, 841; bed, 832; grade.....	850
30.3	Line between R. 4-5, W.P.M.....	854
34.9	Canadian Northern Ry. crossing.....	875
35.9	Line between tps. 4-5, R. 5, W.P.M.....	898
41.5	Brook, bed, 898; grade.....	915
42.0	Line between tps. 3-4, R. 5, W.P.M.....	921

*Elevations are barometric; approximate only.

ALTITUDES IN CANADA

CANADIAN PACIFIC RAILWAY--TRIAL LINES
AND LOCATIONSElevation
above mean
sea level

OSBORNE AND MORDEN BRANCH

Miles from Osborne	<i>Alternative Line</i>	
17.4	Tp. 5, line between R. 2-3, to sec. 30, tp. 3, R. 4, W.P.M.	776
19.4	Tp. 5, line between sec. 19, R. 2, and sec. 24, R. 3, W.P.M.	779
25.0	Myrtle, Canadian Northern Ry. junction	800
26.6	Brook, water (Aug. 10, 1901), 800; grade	805
33.7	Line between sec. 5, tp. 4, and sec. 32, tp. 3, R. 4, W.P.M.	855
36.0	Dead Horse brook, bed, 875; grade	887

CANADIAN PACIFIC RAILWAY--HAMIOTA-BIRTLE
BRANCH (*Projected*)

Miles from Hamiota		
0.0	Hamiota, junction with Miniota branch	1,703
5.0	Grade	1,733
9.2	Canadian Northern railway, Rapid City branch, crossing	1,743
11.5	Arrow river, bed, 1,715; grade	1,735
15.6	Grade	1,754
19.7	Minnewashta creek, bed, 1,699; grade	1,730
24.9	Summit	1,768
29.3	Bird Tail creek, bed, 1,515; grade	1,566
32.8	Birtle, junction with Portage la Prairie and Wetaskiwin line, 137.7 miles from Portage la Prairie	1,707

CANADIAN PACIFIC RAILWAY--HAWARDEN
AND FLORAL (*Projected*)

Miles from Hawarden		
0.0	Hawarden, junction with Outlook branch, 97.2 miles from Moose Jaw	1,998
1.5	Junction switch, with Outlook branch	2,001
7.5	Road crossing	1,926
11.5	Road crossing	1,833
15.8	Beaver creek, high water, 1,750; grade	1,764
19.8	Depression, grade	1,731
22.3	Canadian Northern Ry., Regina and Prince Albert branch, crossing, C.N.Ry., rail, 1,734; C.P.Ry., rail	1,768
28.5	Summit	1,858
33.4	Road crossing	1,785
39.3	Dry slough, bed, 1,715; grade	1,730
43.8	Grand Trunk Pacific Ry., main line, crossing, 1.0 mile west of Clavet	1,719
45.4	Depression	1,688
48.3	Floral, junction with Portage la Prairie and Wetaskiwin line, 412.9 miles from Portage la Prairie	1,724

CANADIAN PACIFIC RAILWAY--ASQUITH AND
CONQUEST BRANCH (*Projected*)

Miles from Asquith		
0.0	Asquith, junction with Portage la Prairie and Wetaskiwin line, 448.8 miles from Portage la Prairie	1,704
1.3	Grand Trunk Pacific Ry., main line, crossing	1,724
5.4	Road crossing	1,770
11.4	Line between 5-35-9 and 32-34-9, W. 3 mer. (summit)	1,792
15.7	Creek, water, 1,775; grade	1,782
17.4	Line between 5-34-9 and 2-33-9, W. 3 mer	1,774
17.9	Creek, water (April 5, 1911), 1,761; grade	1,768

CANADIAN PACIFIC RAILWAY

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CANADIAN PACIFIC RAILWAY—TRIAL LINES
AND LOCATIONSElevation
above mean
sea levelMiles from
Asquith

ASQUITH AND CONQUEST BRANCH (Projected)

19.0	Canadian Northern Ry., Saskatoon and Calgary, crossing, sec. 29, tp. 33, R. 9	1,756
23.5	Line between 5-33-9 and 32-32-9, W. 4 mer	1,736
29.5	Line between 5-32-9 and 32-31-9, W. 3 mer	1,764
35.6	Line between 5-31-9 and 32-30-9, W. 3 mer	1,825
37.9	Canadian Northern Ry., Delisle branch, crossing, sec. 20, tp. 30, R. 9, W. 3 mer	1,857
41.6	Conquest, junction with Outlook branch, 128.6 miles from Moose Jaw	1,874

Miles from
KelfieldCANADIAN PACIFIC RAILWAY—KELFIELD BRANCH
EXTENSION (Projected)

0.0	Kelfield, junction with Kelfield branch	2,311
3.7	Road crossing	2,343
7.6	Grand Trunk Pacific Ry., Lovera branch, crossing	2,297
9.1	Road crossing	2,349
15.6	Summit	2,382
17.6	Road crossing	2,371
19.8	Road crossing	2,303
21.8	Depression	2,244
24.6	Road crossing	2,223
29.6	Road crossing	2,095
35.0	Road crossing	1,992
39.3	Road crossing	1,903
41.9	Junction switch	1,874
42.4	Anglia, junction with Outlook branch, 171.7 miles from Moose Jaw	1,861

Miles from
EmpressCANADIAN PACIFIC RAILWAY—EMPRESS AND
CORONATION BRANCH (Projected)

0.0	Empress, junction with Empress branch	1,965
0.9	Red Deer river, high water, 1,923; grade	1,900
1.8	Four-mile coulée bed, 1,921; grade	1,940
3.8	Creek, bed, 1,944; grade	1,990
9.0	Road crossing	2,096
13.1	Creek, bed, 2,107; grade	2,172
14.0	Creek, bed, 2,062; grade	2,187
18.8	Road crossing	2,265
24.3	Road crossing	2,334
28.4	Road crossing	2,401
33.6	Road crossing	2,503
34.2	Coulée, bed, 2,488; grade	2,528
38.8	Road crossing	2,597
38.9	Summit	2,598
43.8	Road crossing	2,561
48.6	Road crossing	2,567
53.1	Road crossing	2,534
58.6	Road crossing	2,499
63.0	Road crossing	2,536
68.9	Road crossing	2,577
73.8	Road crossing	2,534
77.3	Road crossing	2,501
84.6	Road crossing	2,498

CANADIAN PACIFIC RAILWAY—TRIAL LINES
AND LOCATIONSElevation
above mean
sea levelMiles from
EmpressEMPRESS AND CORONATION BRANCH (*Projected*)

88.7	Road crossing.....	2,495
92.8	Road crossing.....	2,505
95.9	West fork Sound creek, bed, 2,509; grade.....	2,517
99.1	Road crossing.....	2,532
103.3	Road crossing.....	2,535
109.4	Road crossing.....	2,587
116.5	Coronation, junction with Coronation branch, 106.9 miles from Lacombe.....	2,587

Miles from
LagganLAGGAN TO JUNCTION OF BEAR AND
SASKATCHEWAN RIVERS

0.0	Laggan station, 2,369.4 miles from Montreal.....	5,044
1.6	Bow river, bed, 5,144; grade.....	5,154
3.3	Bow river, bed, 5,264; grade.....	5,294
7.0	Grade.....	5,596
12.0	Grade.....	5,767
15.5	Ten-mile brook, bed, 5,981; grade.....	6,022
18.0	Grade.....	6,120
21.0	Glacier brook, bed, 6,325; grade.....	6,338
25.0	Grade.....	6,636
25.8	Bow Pass summit, ground, 6,670; grade.....	6,660
27.0	Brook, bed, 6,425; grade.....	6,436
30.1	Cascade brook, bed, 6,156; grade.....	6,227
32.5	Grizzly Bear brook, bed, 5,890; grade.....	5,995
35.4	Brook, bed, 5,698; grade.....	5,707
36.3	Castle Lake brook, bed, 5,513; grade.....	5,603
39.2	Brook, bed, 5,297; grade.....	5,313
41.1	Sugar river, bed, 5,209; grade.....	5,249
42.7	Glacier brook, bed, 5,147; grade.....	5,200
47.9	Brook, bed, 4,920; grade.....	4,943
51.0	Brook, bed, 4,857; grade.....	4,866
51.9	Depression.....	4,815
56.8	Grade.....	4,973
78.4	Shaw's zero, near junction of the Bear and North Saskatchewan rivers.....	4,905

Miles from
RaleyKIMBALL BRANCH (*Projected*)

0.0	Raley, junction with Cardston branch.....	3,667
2.0	Road allowance, tp. 3, R. 24, W. 4 M.....	3,757
8.3	Summit.....	3,891
8.7	Road allowance, tp. 3, R. 24.....	3,878
11.7	Brook, bed, 3,828; grade.....	3,840
12.9	C.N.W. irrigation canal, bed, 3,878; grade.....	3,883
16.8	End of line, S.E. $\frac{1}{4}$, sec. 31, tp. 1, R. 24, W. 4 M.....	4,047

Miles from
FirEXTENSION OF NORTH STAR BRANCH TO ST.
MARY LAKE

0.0	Fir, junction with Kimberley branch.....	3,076
1.5	Mark creek, bed, 3,066; grade.....	3,105
6.4	Matthew creek, bed, 3,108; grade.....	3,123
10.9	End of branch.....	3,203
12.5	St. Mary lake, low water, 3,191; high water.....	3,198

CANADIAN PACIFIC RAILWAY—TRIAL LINES
AND LOCATIONSElevation
above mean
sea levelMiles from
Junc.TOBACCO PLAINS BRANCH (*Projected*)

0.0	Junction with Crowsnest branch.....	3,057
0.5	Elk river, ice (March, 1893), 3,028; grade.....	3,041
8.0	Grade.....	2,830
12.0	Grade.....	2,642
16.7	Elk river, bed, 2,419; grade.....	2,434

Miles from
ArrowheadKOOTENAY AND ARROWHEAD BRANCH (*Projected*)

0.0	Arrowhead, junction with Arrowhead branch.....	1,406
2.6	Brook, bed, 1,395; grade and summit.....	1,413
4.4	Hamilton brook, bed, 1,396; grade.....	1,402
6.8	Big brook, bed, 1,401; grade.....	1,402
7.8	Comaplix brook, bed, 1,396; grade.....	1,402
9.6	Fish river, bed, 1,389; grade.....	1,397
14.1	Tomson brook, bed, 1,709; grade.....	1,751
16.0	Salmon brook, bed, 1,987; grade.....	2,008
20.0	Salmon brook, bed, 2,457; grade.....	2,463
21.7	Stobart brook, bed, 2,481; grade.....	2,482
23.7	Stobart brook, bed, 2,492; grade.....	2,493
24.4	Summit between Upper Arrow and Kootenay lakes.....	2,520
25.0	Trout creek, bed, 2,504; grade.....	2,506
28.7	Trout creek, bed, 2,342; grade.....	2,347
32.0	Five-mile brook, bed, 2,340; grade.....	2,342
38.6	Abrahamson brook, bed, 2,335; grade.....	2,340
44.4	Cañon brook, bed, 2,338; grade and summit.....	2,343
47.5	Tenderfoot brook, bed, 2,275; grade.....	2,278
51.4	Rapid brook, bed, 2,194; grade.....	2,200
57.9	Bay of Lardo river, water, 2,159; grade.....	2,165
54.1	Poplar brook, bed, 2,148; grade.....	2,153
56.0	Cascade brook, bed, 2,048; grade.....	2,052
58.7	Lardo river, water, 1,978; grade.....	1,982
63.8	Lardo river, bed, 1,859; grade.....	1,868
71.1	Bay of Duncan river, water, 1,768; grade.....	1,772
72.8	Cooper brook, bed, 1,812; grade.....	1,817
76.0	End of line.....	1,763

Miles from
K. & A. LineNORTH LARDO RIVER BRANCH (*Projected*)

0.0	Junction with Kootenay and Arrowhead line.....	2,503
1.0	Grade.....	2,562
4.9	Brook, bed, 2,856; grade.....	2,870
6.5	Ferguson town-site.....	3,007
8.6	Lardo, river, bed, 3,079; grade.....	3,138
10.6	Cascade brook, bed, 3,384; grade.....	3,399
11.8	End of line.....	3,479

Miles from
K. & A. LineFISH CREEK TO SABLE CREEK BRANCH (*Projected*)

0.0	Junction with Kootenay and Arrowhead line.....	1,611
1.9	Brook, bed, 1,631; grade.....	1,638
3.7	Brook, bed, 1,640; grade.....	1,647
1.8	Sable Creek station.....	1,656

CANADIAN PACIFIC RAILWAY—TRIAL LINES
AND LOCATIONSElevation
above mean
sea levelMiles from
Lardo
BranchDUNCAN CITY BRANCH (*Projected*)

0.0	Junction with Lardo branch.....	1,808
0.1	Lardo river, water, 1,796; high water, 1,801; grade.....	1,809
1.4	Duncan river, water, 1,788; high water, 1,797; grade.....	1,800
3.9	Summit.....	1,871
4.4	Duncan City station ground.....	1,807
4.6	Duncan or Howser lake, low water, 1,795; high water.....	1,805

Miles from
MidwayMIDWAY TO BEAVER CREEK MINES
(*Projected*)

0.0	Midway, junction with Boundary branch.....	1,914
3.9	Kettle river, water (approx.), 1,833; grade.....	1,858
8.0	Grade.....	1,898
13.0	Rock Creek station.....	1,947
13.1	Rock creek, bed, 1,938; grade.....	1,947
17.1	Summit.....	2,048
22.8	West fork Kettle river, bed, 2,010; grade.....	2,043
29.0	Grade.....	2,154
35.0	Grade.....	2,353
44.5	Beaver Creek Mines.....	2,572

Miles from
MidwayMIDWAY AND VERNON BRANCH
(*Projected*)

0.0	Midway, junction with Boundary branch.....	1,914
0.8	Road crossing.....	1,923
2.9	Brook, bed, 1,927; grade.....	1,933
4.2	Waggon road crossing.....	1,947
5.9	Bubar brook, bed, 1,947; grade.....	1,955
8.0	Nicholson brook, bed, 1,976; grade.....	1,988
11.0	Grade.....	1,991
15.0	Kettle river, water, 2,021; grade.....	2,025
16.8	Bay of Kettle river, water, 2,038; grade.....	2,049
19.0	Kettle river, bed, 2,045; water, 2,056; grade.....	2,060
19.5	Westbridge townsite.....	2,067
22.4	West fork of Kettle river, bed, 2,108; grade.....	2,120
26.8	West fork of Kettle river, bed, 2,198; grade.....	2,298
30.0	Bull brook, bed, 2,348; grade.....	2,351
38.0	Grade.....	2,501
41.3	Beaverdell station ground.....	2,583
46.0	Elevation carried across Kettle river from this point.....	2,721
47.1	West fork Kettle river, bed, 2,751; grade.....	2,776
49.5	Lake brook, bed, 2,854; grade.....	2,867
55.0	Grade.....	3,131
62.0	Grade.....	3,593
63.5	Brook, bed, 3,664; grade.....	3,719
67.3	Brook, bed, 3,979; grade.....	3,997
70.5	Summit.....	4,133
73.5	Brook, bed, 3,938; grade.....	3,955
79.0	Brook, bed, 3,481; grade.....	3,581
81.4	Pope brook, bed, 3,282; grade.....	3,395
86.0	Grade.....	3,057
89.3	Mission brook, water, 2,813; grade.....	3,395

CANADIAN PACIFIC RAILWAY—TRIAL LINES
AND LOCATIONSElevation
above mean
sea levelMIDWAY AND VERNON BRANCH
(Projected)

Miles from Midway		
91.2	North fork Mission brook, bed, 2,654; grade.....	2,672
97.4	Eight-mile brook, bed, 2,074; grade.....	2,118
101.0	McLure brook, bed, 1,907; grade.....	1,968
107.0	Grade.....	1,521
113.5	Wood brook, bed, 1,506; grade.....	1,520
118.0	Brook, bed, 1,437; grade.....	1,442
122.0	Long lake, water, 1,312; grade.....	1,323
131.4	Brook, bed, 1,376; grade.....	1,383
132.5	Brook, bed, 1,285; grade.....	1,330
134.9	Vernon, junction with Okanagan branch.....	1,250

NICOLA BRANCH EXTENSION (Abandoned Location)

Miles from Nicola		
0.0	Nicola station.....	2,048
1.6	Nicola lake, high water (1894).....	2,378
8.0	Grade.....	2,753
13.0	Grade.....	2,984
20.7	Courtenay lake, water 3,310; grade.....	3,332
26.1	Quilchena summit.....	3,551
29.5	Otter brook, bed, 3,423; grade.....	3,431
35.7	Otter brook, bed, 3,160; grade.....	3,164
38.1	Otter brook, bed, 3,120; grade.....	3,127
41.6	Pasque Creek lake, water, 3,235; grade.....	3,264
42.8	Lake, water, 3,263; grade.....	3,281
43.2	Summit, grade.....	3,277
44.4	Pond, water, 3,215; grade.....	3,237
46.7	Burns creek, bed, 2,962; grade.....	3,122
48.7	Creek, bed, 2,996; grade.....	3,015
51.7	Creek, bed, 2,769; grade.....	2,890
58.6	Princeton waggon road crossing, ground, 2,502; grade.....	2,522
61.2	East fork, One-mile creek, bed, 2,068; grade.....	2,387
64.8	Opposite W. Martin's house, grade.....	2,221
65.7	One-mile creek, bed, 2,159; grade.....	2,180
69.2	Similkameen river, high water, 2,001; grade.....	2,012
72.2	Similkameen river, at mouth of Five-mile creek, high water, 1,936; grade.....	1,942
78.4	Similkameen river, high water, 1,852; grade.....	1,860
87.7	Grade.....	1,703
93.2	Sixteen-mile creek, bed, 1,566; grade.....	1,572
96.8	Similkameen river, high water, 1,507; grade.....	1,509
100.9	Similkameen river, high water, 1,444; grade.....	1,446
105.2	Similkameen river, high water, 1,387; grade.....	1,389
108.2	Keremeos townsite, First avenue.....	1,539
110.9	Olalla creek, 0.25 mile from mouth, bed, 1,732; grade.....	1,744
114.9	Keremeos creek, bed, 1,886; grade.....	2,161
117.7	Long lake, water, about, 2,450; grade.....	2,457
120.3	Twin Lake summit, ground, 2,707; grade.....	2,702
121.5	Twin lake, water, 2,519; grade.....	2,642
123.1	Inglis creek, at crossing line between tps. 89 and 53, bed, 2,374; grade.....	2,308
129.7	Creek, bed, 1,702; grade.....	1,771
132.2	Creek, sec. 36, tp. 54, bed, 1,499; grade.....	1,536

CANADIAN PACIFIC RAILWAY—TRIAL LINES
AND LOCATIONSElevation
above mean
sea levelNICOLA BRANCH EXTENSION (*Abandoned Location*)

137.6	Okanagan river, sec. 17, tp. 50, 500 feet above waggon road bridge, water, approx., 969; grade.....	981
141.2	Grade.....	1,082
145.0	Penticton, Moose Jaw street.....	1,150

ABBOTSFORD AND HOPE
(*Projected*)

Miles from Abbotsford		
0.0	Abbotsford, junction with Mission branch.....	88
3.4	Sumas creek, water, 26; grade.....	45
14.0	Grade.....	50
18.1	Chilliwack river, water, 113; grade.....	132
22.0	Grade.....	54
26.5	Brook, water, 58; grade.....	68
30.7	Summit.....	178
33.1	Creek, high water, 82; water, 69; grade.....	133
37.3	Bay of Fraser river, water 81; grade.....	101
45.9	Hunter brook, water, 117; grade.....	156
46.7	Summit.....	174
51.1	Silver brook, bed, 136; grade.....	145
52.7	Hope townsite.....	209

MILDEN AND EMPRESS BRANCH
(*Projected*)

Miles from Milden		
0.0	Milden, junction with Outlook branch, 141.7 miles from Moose Jaw.....	1,873
4.9	Road crossing, grade.....	1,882
10.5	Road crossing, grade.....	1,945
12.7	Summit, ground and grade.....	1,961
17.8	Road crossing, grade.....	1,935
22.5	Road crossing, grade.....	1,948
27.9	Coulée, bed, 1,929; grade.....	1,950
33.5	Road crossing, grade.....	2,046
38.7	Road crossing, grade.....	2,067
46.4	Coulée, bed, 2,105; grade.....	2,135
52.6	Road crossing, grade.....	2,154
57.8	Road crossing, ground, 2,164; grade.....	2,184
66.7	Coulée, bed, 2,161; grade.....	2,211
70.0	Grade, sec. 6, tp. 26, R. 21, W. 3 mcs.....	2,258
72.9	Summit, ground and grade.....	2,278
79.3	Coulée, bed, 2,179; grade.....	2,230
85.8	Road crossing, grade.....	2,256
90.5	Road crossing, grade.....	2,278
95.6	Summit, ground, 2,344; grade.....	2,337
99.5	Road crossing, grade.....	2,298
105.5	Road crossing, grade.....	2,275
109.0	Coulée, bed, 2,106; grade.....	2,209
116.4	Coulée, bed, 2,055; grade.....	2,140
124.5	Road crossing, ground, 2,018; grade.....	2,070
128.1	Alsask crossing, ground, 1,974; grade.....	2,003
131.0	Red Deer river, ice, 1,919; high water, 1,933; grade.....	1,960
131.6	Junction switch.....	1,976
152.2	Empress, junction with Empress branch.....	1,965

GRAND TRUNK RAILWAY

137

Miles from
Montreal

GRAND TRUNK RAILWAY—MAIN LINE

Elevation
above mean
sea level

Montreal and Chicago

0.0	Montreal, Bonaventure station, top of rail	
1.5	St. Henri station	48.3
4.7	Montreal West station	59.8*
5.9	Rockfield	60.9
6.0	Canadian Pacific Ry., "Short Line," under crossing, Canadian Pacific Ry., rail, 105.2; G. T. Ry., rail	71.5
6.6	Dominion station	72.8
7.0	Convent	76.5
7.9	Lachine	76.9
	Lachine Wharf station	80.2
9.2	Dixie station	74.5
10.3	Dorval	96.0
12.2	Strathmore station	85.2
12.7	Valoisville	89.4
13.4	Lakeside	89.8
14.6	Pointe Claire station	96.9
15.7	Beaconsfield	108.1
17.6	Beaurepaire	105.1
19.2	Baie d'Urfé station	105.6
20.8	Ste. Anne	114.1
21.5	Ottawa river, Ste. Anne bridge, high water, above lock, 78.5; extreme low water, 69.9; rail	121.2
21.8	Ottawa river, Ile Perrot bridge, water, 72; rail	110.3
24.3	Ottawa river, Vaudreuil bridge, rail	96.6
24.5	Vaudreuil station	91.5
29.2	Cedars station	84.8
31.3	St. Dominique station	159.4
34.7	River Rouge station	157.2
34.8	River Rouge, bed, 139; rail	161.3
35.5	River Delisle, bed, 156; rail	161.0
37.9	Coteau, junction with Ottawa division, 56.6 miles from Alburgh junction	161
39.9	St. Zotique station	159.5
43.4	River Beaudet station, Que.	158.7
43.6	River Beaudet, bed, 149; rail	168.0
45.2	Interprovincial boundary	172.1
48.6	Bainsville station, Ont.	169.5
54.0	Lancaster station	173.1
55.1	R. au Raisin or Black river, bed, 148; rail	163.3
59.7	Summerstown station	166.4
62.9	Indian Lands brook, water, 171; bed, 169; rail	182.7
67.7	Cornwall station	176
69.0	Cornwall junction, with New York and Ottawa Ry.	192.2
72.5	Mille Roches station	201.2
77.3	Wales	225.3
81.7	Farrans Point	235.5
84.2	Aultsville	241.3
84.8	Aultsville brook, water, 232; bed, 229; rail	217.7
92.6	Morrisburg station	241.7
98.5	Doran brook, water (June 1, 1878), 227; rail	268

*For additional elevations between Montreal and Cornwall, see under "Bench-marks established by Dept. of Public Works."

Miles from
Montreal

GRAND TRUNK RAILWAY—MAIN LINE

Elevation
above mean
sea level*Montreal and Chicago*

99.3	Iroquois station.....	242
104.8	Cardinal station.....	276
110.7	Johnstown brook, bed, 250; rail.....	260
112.5	Canadian Pacific Ry., Prescott branch, overhead crossing, G. T. Ry., rail.....	302
113.9	Prescott station.....	310.9
120.6	Maitland station.....	329.7
125.5	Canadian Pacific Ry., Brockville branch, overhead crossing, G. T. Ry., rail.....	291
125.6	Brockville station.....	283.6
127.0	Canadian Northern Ry., Brockville branch, crossing C. N. Ry., rail, 308; G.T. Ry., rail.....	282
128.8	Lyn station.....	283.4
134.2	Yonge Mills station.....	302.9
138.3	Mallorytown station.....	337
143.1	Vanston pond, water (June 14, 1878), 302; rail.....	310
146.5	Lansdowne station.....	337.6
154.0	Gananoque junction, with Thousand Islands Ry.....	346.6
155.9	Gananoque river, water (June 17, 1878), 260; rail.....	289
162.9	Findley station.....	368.7
168.8	Rideau station.....	306.2
169.4	Rideau canal, foot of Kingston Mills locks, water, 240; rail.....	310
173.1	Kingston junction, with Kingston branch.....	275.5
174.9	Kingston station.....	251
	B.M. on window-sill of Carruthers' stone warehouse facing lake Ontario.....	249.2
173.3	Canadian Pacific Ry., Kingston and Pembroke branch, crossing.....	288.3
175.8	Little Cataragui brook, water, 246; rail.....	255
179.9	Collins bay (lake Ontario), mean water, 245.77; rail.....	256
180.5	Collins Bay station.....	284.8
180.9	McGuinn brook, rail.....	272
186.5	Stirling brook, bed, 294; rail.....	313
188.1	Ernestown station.....	325.0
189.5	Hill brook, water, 293; rail.....	303
193.6	Big brook, bed, 288; rail.....	303
193.8	Fredericksburg station.....	308.2
198.5	Napanee river, water (June 26, 1878), 276; rail.....	313
198.9	Napanee station.....	314.3
199.3	Canadian Northern Ry., Toronto and Ottawa, crossing.....	326.5
207.0	Marysville station.....	335.8
212.1	Salmon river, water (July 1, 1878), 268; bed, 251; rail.....	284
213.3	Canadian Pacific Ry., Lake Ontario Shore line, crossing, C.P. Ry., rail, 349; G. T. Ry., rail.....	325
213.6	Shannonville station.....	334.8
220.7	Belleville, junction with Belleville and Midland branch.....	286.0
221.2	Moirs river, water (July 4, 1878), 267; rail.....	282
223.8	Young brook, rail.....	304
227.4	Sidney station (closed).....	301
232.3	Trent river, water (July 5, 1878), 247; rail.....	276
232.9	Trenton station.....	285.3
233.2	Trenton junction, Canadian Northern Ry., Picton and Maynooth branch, crossing, C.N. Ry., rail, 263.1; G.T. Ry., rail.....	286

GRAND TRUNK RAILWAY

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Miles from
Montreal

GRAND TRUNK RAILWAY—MAIN LINE

Elevation
above mean
sea level

Montreal and Chicago

235.0	Summit, rail.....	355
235.3	Murray Hill station (closed).....	346
242.0	Brighton station.....	303.7
247.6	Colborne brook, water (July 9, 1878), 275; rail.....	289
249.6	Colborne station.....	321.8
250.8	Gillis brook, water, 282; rail.....	295
256.0	Grafton brook, water, 277; rail.....	282
256.2	Grafton station.....	283.8
258.3	Clark brook, water (July 10, 1878), 260; rail.....	283
264.1	Cobourg station.....	295.4
264.8	Cobourg brook, water, 260; rail.....	272
270.6	Port Hope viaduct, mean water (lake Ontario), 245.77; rail.....	282
270.8	Port Hope, junction with Port Hope and Peterborough branch.....	286.5
278.5	Newtonville station.....	396.0
286.3	Newcastle station.....	299.3
290.6	Soper brook, water (July 22, 1878), 246; rail.....	262
290.8	Bowmanville station.....	262.6
291.0	Bowmanville brook, water, 246; rail.....	260
294.4	Darlington station.....	323.7
298.7	East Farwell brook, water, 246; rail.....	265
300.5	Oshawa station.....	331.7
304.6	Whitby and Lindsay Branch crossing.....	277
305.0	Whitby, junction with Whitby and Lindsay branch.....	276.3
	Canadian Pacific Ry., Lake Ontario Shore line, crossing.....	301
306.8	Lyon brook, water (July 27, 1878), 246; rail.....	264
311.5	Pickering station.....	290.4
312.0	West Pickering station (closed).....	284
313.3	Dunbarton station.....	288.7
316.0	Rosebank station.....	290.4
316.2	River Rouge, water (July 29, 1878), 246; rail.....	285
317.6	Port Union station.....	266.5
318.1	Highland brook, water, 246; rail.....	291
322.5	Markham Road station.....	535
324.2	Summit, ground, 564; rail.....	558
325.0	Scarborough, junction with Cobeco branch.....	546.5
326.7	York Road station (closed).....	461
328.6	York station.....	425.9
332.2	Don river, mean water (lake Ontario), 245.8; rail.....	257
332.3	Toronto, Riverdale station.....	266.5
334.0	" Union station.....	254
336.3	" North Parkdale station.....	303
337.8	" Bloor St.....	369
339.2	West Toronto station.....	405
340.2	Stream, water, 345; rail.....	385
342.4	Weston station.....	425
343.5	Humber river, water, 394; rail.....	458
345.7	Highfield station (closed).....	544
347.5	Mimico river, water, 513; bed, 512; rail.....	540
349.1	Malton station.....	549
354.8	Etobicoke river, water, 689; rail.....	712
355.1	Brampton station.....	712
355.3	Canadian Pacific Ry., Orangeville branch, crossing.....	713
360.7	Norval station.....	818
362.2	Credit river, water, 713; rail.....	826
363.1	Georgetown station.....	847

Miles from
Montreal

GRAND TRUNK RAILWAY—MAIN LINE

Elevation
above mean
sea level*Montreal and Chicago*

363.8	Georgetown junction, with Hamilton and Allandale branch.....	872
366.3	Limehouse station.....	1,003
369.4	Acton West station.....	1,160
373.6	Summit, rail.....	1,219
374.8	Eramosa river, water, 1,140; rail.....	1,183
375.0	Rockwood station.....	1,183
382.3	Speed river, water, 1,028; rail.....	1,068
	Canadian Pacific Ry., Hamilton and Goderich branch, crossing ..	1,040
382.4	Guelph station.....	1,067
383.4	Guelph junction, with Southampton branch.....	1,076
387.4	Mosborough station.....	1,085
392.1	Breslau station.....	1,024
392.4	Grand river, water, 961; rail.....	1,011
396.1	Galt Branch switch.....	1,102
396.3	Berlin station.....	1,101
396.9	Berlin junction, with Galt and Elmira branch.....	1,095
402.8	Petersburg station.....	1,211
403.8	Summit, ground, 1,260; rail.....	1,249
406.2	Baden station.....	1,157
408.7	New Hamburg station.....	1,127
409.2	River Nith, water, 1,083; rail.....	1,125
415.7	Shakespeare station.....	1,183
421.4	Stratford and Port Dover switch.....	1,193
422.3	Stratford station.....	1,191
422.9	Avon river, water, 1,169; rail.....	1,185
427.4	St. Paul station.....	1,167
432.4	St. Marys, junction with London and St. Marys branch.....	1,085
433.4	Thames river, water, 993; rail.....	1,043
439.8	Fish brook, water, 947; rail.....	982
441.8	Granton station.....	1,035
447.8	Lucan station.....	993
449.8	Lucan crossing, London and Wingham branch, rail, 863; main line, rail.....	884
454.8	Ailsa Craig station.....	754.3
455.0	River Ausable, water, 723; rail.....	749
462.3	Park Hill station.....	662.4
465.8	Spring brook, water, 596; rail.....	617
467.8	Cameron and Beck siding.....	646.7
468.8	River Ausable, water, 594; rail.....	615
470.7	Widder brook, water, 654; rail.....	673
470.9	Thedford station.....	682.4
474.8	Tool brook, water, 714; rail.....	722
479.9	Forest station.....	711.9
480.1	Forest brook, water, 679; rail.....	705
485.2	Aberarder station.....	664.5
489.0	Camlachie station.....	648.9
493.6	Perch station.....	594.1
497.3	Blackwell station.....	600.8
501.8	Point Edward station (closed).....	585
502.0	Pere Marquette junction.....	606
502.5	Pere Marquette R. R. switch, near Sarnia station.....	592
503.6	Sarnia, Tunnel station, junction with Sarnia branch.....	611.8
	Sarnia tunnel, Canadian portal, rail.....	547

GRAND TRUNK RAILWAY

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Miles from
Montreal

GRAND TRUNK RAILWAY—MAIN LINE

Elevation
above mean
sea level

Montreal and Chicago

504.0	Sarnia tunnel, lowest point, rail.....	508
504.8	Sarnia tunnel, American portal, rail..	557
506.7	Port Huron, Mich.....	610
517.7	Goodell station.....	708
522.7	Emmett ".....	775
531.3	Capac ".....	813
538.7	Imlay City station.....	827
543.4	Attica ".....	894
550.5	Lapeer ".....	827
557.4	Elba ".....	852
561.4	Davison ".....	791
565.4	Belsay ".....	777
570.4	Flint ".....	711
576.6	Otterburn ".....	771
579.2	Swartz Creek station.....	778
583.5	Duffield ".....	779
587.4	Durand ".....	793
592.2	Bancroft station.....	852
598.5	Morrice ".....	886
600.0	Perry ".....	888
605.0	Shaftsbury ".....	874
611.7	Haslett ".....	857
617.3	Trowbridge ".....	845
619.9	Lansing station.....	833
624.7	Millet ".....	877
632.2	Pottersville station.....	895
638.5	Charlotte ".....	915
646.6	Olivet ".....	881
651.7	Bellevue ".....	862
658.4	Penfield ".....	844
663.5	Nichols station (closed).....	835
664.2	Battle Creek station.....	837
671.7	Renton station (closed).....	841
674.7	Summit, rail.....	984
676.0	Climax station.....	969
680.7	Scott ".....	908
683.6	Pavilion ".....	864
688.6	Vicksburg station.....	851
694.1	Schoolcraft ".....	876
700.6	Chamberlain ".....	888
704.9	Marcellus ".....	893
709.4	Wakelee ".....	907
713.6	Penn ".....	900
718.0	Cassopolis ".....	889
726.9	Edwardsburg station, Mich.....	828
730.0	Granger station, Ind.....	806
736.8	Mishawaka station.....	740
740.4	South Bend station.....	712
741.7	Oliver station (closed).....	720
749.3	Crumstown station.....	712
756.4	Mill Creek station.....	698
760.7	Stillwell station.....	732
765.8	Kingsbury station (closed).....	746
769.8	Wellsboro station.....	751
770.7	Union Mills station.....	741

Miles from
Montreal

GRAND TRUNK RAILWAY—MAIN LINE

Elevation
above mean
sea level*Montreal and Chicago*

777.0	Haskells station	765
785.1	Valparaiso "	804
790.6	Sedley "	692
795.8	Ainsworth station	667
801.4	Lottaville "	627
805.9	Griffith "	638
809.4	Maynard station (closed)	619
815.8	Thornton junction, Ill...	605
818.1	Harvey station	605
821.6	Blue Island junction	599
829.3	Hayford station (closed)	622
832.3	Eldon station	602
836.3	Chicago, Chicago and Western Indiana junction	609

GRAND TRUNK RAILWAY—MAIN LINE—EASTERN
DIVISIONMiles from
Montreal

0.0	Montreal, Bonaventure station, top of rail	48.3
1.5	St. Henri station	61
3.6	Point St. Charles station	52.5
4.5	Victoria bridge, western abutment, outer edge	7.5
5.1	" " " " " " " "	71.5
5.8	" " " " " " " "	60.8
5.8	River St. Lawrence, water (May 2, 1878), 31.0; extreme high water	50.5
6.2	St. Lambert, junction with Rouses Point branch and Quebec, Montreal and Southern Ry.	73.9
10.0	St. Hubert station	9.0
14.2	St. Bruno "	80.9
17.2	St. Bazile "	62
21.1	Belœil "	63
21.3	Richelieu river, water (May 17, 1878), 22.6; rail	63
21.5	Otterburn Park station	69
22.2	St. Hilaire station	83.3
23.0	St. Hilaire East station	99.5
27.5	Huron river, water, 87; rail	103
28.2	Ste. Madeleine station	117
34.9	Quebec, Montreal and Southern Ry. crossing	113.6
35.7	St. Hyacinthe station	109
36.2	Yamaska river, water (May 23, 1878), 64; bed, 59; rail	104
37.6	Canadian Pacific Ry., St. Guillaume branch, crossing	111
38.0	Ste. Rosalie, junction with Intercolonial railway, main line	111
42.6	Britannia Mills station	221
44.9	St. Liboire station (summit)	290
48.0	Upton station	202
48.2	Black river, water, 159; rail	202
49.0	White river, water (May 28, 1878), 176; rail	210
54.4	Actonvale station	309
54.7	Canadian Pacific railway, Drummondville branch, crossing	8
59.8	Moose river, water (May 30, 1878), 340; rail	35
62.0	Danby station	437
65.7	Summit	612
66.2	South Durham station	608
69.2	Lisgar station	529
69.5	Shingle brook, water, 514; rail	525

GRAND TRUNK RAILWAY

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Miles from
Montreal

GRAND TRUNK RAILWAY MAIN LINE EASTERN DIVISION

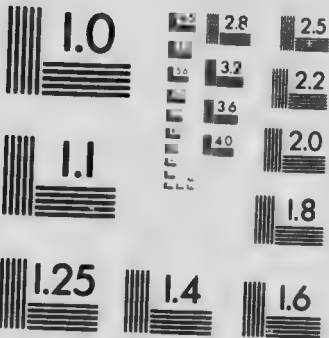
Elevation
above mean
sea level

70.8	Black river, water, 514; rail.....	525
71.8	Gore station.....	535
74.7	St. Francis river, water (June 2, 1878), 366; rail.....	423
76.0	Mulvaney brook, water, 368; rail.....	390
76.5	Richmond, junction with Quebec branch.....	390
80.8	Corris station.....	404
84.0	Willow brook, water, 388; rail.....	407
86.7	Windsor station.....	419
86.8	Windsor creek, water (June 5, 1878), 395; rail.....	421
90.3	Titus station.....	429
92.7	Brook, water, 412; rail.....	433
93.1	St. Francis river, 2nd crossing, water, 414; rail.....	444
94.5	Brompton station.....	472
97.8	Mow creek, water, 462; rail.....	481
100.7	Magog river, water (June 7, 1878), 462; rail.....	489
101.1	Sherbrooke junction with Quebec Central railway.....	485.0
103.6	Canadian Pacific Ry., "Short Line," crossing.....	498
104.2	Lennoxville station.....	498.6
104.6	Massawippi river, water (June 10, 1878), 473; rail.....	498
106.4	Salmon river, water, 483; rail.....	496
110.9	Coaticook river, water, 620; rail.....	644
111.1	Waterville station.....	645.0
114.4	Compton station.....	733.0
115.5	Public road bridge, road, 729; rail.....	748
117.2	Hillhurst station.....	818.7
122.6	Coaticook station.....	1,006.2
127.6	Dixville station, Que.....	1,126.8
132.0	Boundary Line creek, water (June 17, 1878), 1,209; rail.....	1,251
132.0	International boundary.....	1,250
132.1	Norton Mills station, Vt.....	1,252
133.5	Norton creek, water, 1,269; rail.....	1,300
137.0	Lake station.....	1,350
141.2	Summit.....	1,377
141.4	Summit station.....	1,376
146.7	Cargyll river, water, 1,213; rail.....	1,228
147.7	Island Pond station.....	1,186
152.1	East Brighton station.....	1,167
155.3	Wenlock station, Vt.....	1,149
157.9	Nulhegan river, water (June 29, 1878), 1,098; rail.....	1,121
162.4	901; rail.....	923
162.7	Connecticut river, water (June 29, 1878), 875; rail.....	911
162.7	North Stratford station, N.H.....	907
166.5	Beattie station.....	875
170.7	Bog brook, water, 850; rail.....	867
170.9	Stratford Hollow station.....	868
175.2	Groveton station.....	889
175.6	Ammonosuc river, water (July 3, 1878), 876; rail.....	900
180.0	Ammonosuc river, water, 935; rail.....	951
180.9	Stark station.....	959
183.0	Percy station.....	979
185.7	Phillips brook, water, 969; rail.....	982
185.8	Crystal station.....	982
186.9	Ammonosuc river, water, 971; rail.....	987
188.0	West Milan station.....	1,001
188.6	North branch Ammonosuc river, water, 979; rail.....	1,000
191.1	North branch Ammonosuc river, water, 982; rail.....	994
193.7	Copperville station.....	1,005



MICROCOPY RESOLUTION TEST CHART

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APPLIED IMAGE Inc.

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Rochester, New York 14609-11A
716-482-0300 Phone
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GRAND TRUNK RAILWAY

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Miles from
Montreal

GRAND TRUNK RAILWAY—QUEBEC BRANCH

Elevation
above mean
sea level

117.2	Princeville station.....	525
122.9	Brook, water, 432; rail.....	442
123.2	Plessisville station.....	441
125.8	Brook, water, 423; rail.....	442
131.4	Ste. Julie station.....	475
135.7	Bécancour river, water, 425; rail.....	446
136.0	Lyster, junction with Lotbinière and Megantic railway.....	446
138.9	Chevreaux river, rail.....	455
140.3	River Henri, water, 433; rail.....	444
140.5	Hall siding.....	449
143.2	Rivière du Chêne, water (Aug. 30, 1878), 420; rail.....	432
143.8	Méthot Mills station.....	444
152.2	St. Agapit station.....	406
152.9	Brook, water, 384; rail.....	396
157.7	Craig Road station.....	335
163.6	Chaudière station, junction with Intercolonial railway, main line..	236.1
164.0	Chaudière river, water (Sept. 4, 1878), 177; rail.....	234.8
164.1	Chaudière junction, with Intercolonial railway, Chaudière branch	235.1
164.8	Chaudière Curve station.....	232.5
167.7	New Liverpool siding.....	116
168.8	St. Romuald station.....	70.9
170.5	Hadlow station.....	18.9
171.9	Lévis, junction with Intercolonial railway, main line.....	16.0

Miles from
Victoriaville

GRAND TRUNK RAILWAY—DOUCET LANDING BRANCH

0.00	Victoriaville, junction with Quebec branch, 108.4 miles from Montreal.....	431
3.71	Walker Cut station.....	424
6.46	Black River ".....	334
10.71	Bulstrode ".....	321
13.84	Ste. Eulalie ".....	291
16.25	Aston junction, with Intercolonial Ry., main line, 745.9 miles from Halifax.....	288.3
17.84	Aston station.....	277.0
24.88	Bécancour river, water, 154; rail.....	184.5
25.21	St. Célestin station.....	184.5
30.36	Quebec, Montreal and Southern Ry. crossing.....	81.2
30.46	St. Grégoire station.....	79.8
32.10	Godefroy river, water (May 21, 1909), 23.0; rail.....	34.5
35.34	Doucet Landing station.....	28.3

Miles from
Brosseau

GRAND TRUNK RAILWAY—MASSENA SPRINGS BRANCH

0.0	Brosseau, junction with Rouses Point branch.....	59
1.0	St. Lambert river, water, 41; rail.....	50.0
2.3	Laprairie station.....	57
6.3	Rivière à la Torue, bed, 68; rail.....	87
6.9	Delson, junction with Napierville Junction railway and Canadian Pacific Ry., "Short Line," crossing.....	91.7
7.8	River St. Pierre, water, 89; rail.....	95
7.9	St. Constant station.....	94
10.6	Brook, water, 110; rail.....	123
11.4	St. Isidore junction, with Hemmingford branch.....	129

Miles from Brosseau	GRAND TRUNK RAILWAY—MASSENA SPRINGS BRANCH	Elevation above mean sea level
12.1	St. Regis river, bed, 129; rail	135
13.6	St. Regis river, bed, 147; rail	153
15.4	St. Isidore station	174
18.5	Ste. Philomene station	140
20.2	Sturgeon river, bed, 98; rail	125
21.7	Ste. Martine, junction with Beauharnois branch	128
23.5	Bean river, bed, 113; rail	129
24.8	English river, high water, 113; low water, 106; rail	130
26.9	Howick, junction with Ottawa division, 36.7 miles from Alburgh junction	132.5
31.7	Bryson station	135
31.9	Chateauguay river, water, 120; rail	139
35.4	Orms town station	138
40.2	Dewittville station	158
44.8	Huntingdon station	165
44.9	New York Central R.R., Adirondack division, crossing	167
50.4	Carr station	185
52.5	White station	181
57.3	Ste. Agnes station, Que.	195
61.6	International boundary	171
62.2	Fort Covington station, N.Y.	166
62.5	Salmon river, water, 153; rail	166
67.7	Bombay junction	187
75.2	Helena station	202
83.7	Massena Springs station, N.Y.	215
Miles from St. Isidore	GRAND TRUNK RAILWAY—HEMMINGFORD BRANCH	
0.0	St. Isidore, junction with Massena Springs branch, 11.4 miles from Brosseau	129
3.6	Côte Ste. Thérèse station	154
6.4	St. Rémi station	209
10.1	St. Michel "	188
13.8	Sherrington "	184
16.0	Barrington, junction with Ottawa division, 21.4 miles from Alburgh junction	189.2
21.3	Hemmingford station, Que.	256
27.2	Moors, N.Y., junction with Delaware and Hudson R.R.	208
Miles from St. Lambert	GRAND TRUNK RAILWAY—ROUSES POINT BRANCH	
0.0	St. Lambert, junction with main line, Eastern division, 6.32 miles from Montreal	73.9
1.7	Ranelagh station	63
5.8	Brosseau, junction with Massena Springs branch	59.0
13.1	L'Acadie river, water, 83; rail	116.2
14.0	L'Acadie station	116.9
19.8	Canadian Pacific railway, "Short line," cross	114.0
20.8	St. Johns station, rail, east track, 120.2; rail, west track	120.6
27.3	Grande Ligne station	141.7
29.7	Girard station	152.2
30.9	Summit, ground, 164; rail	161
33.4	Stottsville station	150.1
37.5	Lacolle river, water, 105; rail	131.8
38.1	Lacolle junction, with Ottawa division, 9.8 miles from Alburgh junction	130.4

GRAND TRUNK RAILWAY

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Miles from
St. Lambert

GRAND TRUNK RAILWAY—ROUSES POINT BRANCH

Elevation
above mean
sea level

40.7	Mussen creek, water, 104.2; rail.....	114
41.9	International boundary.....	116.4
43.1	Junction with Rutland R.R.....	120.3
43.8	Rouses Point, N.Y., Delaware and Hudson R.R. station.....	122.48
	" " bench mark on Chapman building.....	107.96
	Lake Champlain, extreme low water (Oct. 12, 1880), 92.20; extreme high water (May 4, 1869), 102.7; low water, 93.9; mean water, (1871 to 1895).....	96.1

GRAND TRUNK RAILWAY—JACQUES CARTIER
UNION BRANCHMiles from
Western Junc.

0.00	Western Junction, with old main line, 7.35 miles from Montreal.	130
2.80	Summit.....	158
3.56	Côte de Liesse station.....	139
4.47	St. Laurent.....	134
6.54	Jacques Cartier, junction with Canadian Pacific railway.....	98

GRAND TRUNK RAILWAY—BEAUHARNOIS BRANCH

Miles from
Ste. Martine

0.00	Ste. Martine, junction with Massena Springs branch, 21.7 miles from Brosseau.....	128
0.35	Chateauguay river, bed, 96; rail.....	126
1.25	Marais river, bed, 98; rail.....	124
5.90	Beauharnois, junction with New York Central R.R.....	132

GRAND TRUNK RAILWAY—OTTAWA DIVISION

Miles from
Alburgh Junc.

0.0	Alburgh Junction, Vt., with Central Vermont R.R.....	124
0.2	Lake Champlain, high water (May 4, 1869) 102.7; low water, 93.9; mean water (1871-1895).....	96.1
1.5	Alburgh Springs, Vt., station.....	147
3.3	International boundary.....	147
7.6	Noyan, junction with Quebec, Montreal and Southern Ry.....	122.5
7.7	Quebec, Montreal and Southern Ry. crossing.....	123.7
9.2	Richelieu river, high water, 102.6; low water, 93.9; rail.....	106.4
9.8	Lacolle junction, with Rouses Point branch.....	130.4
11.0	Napierville Junction Ry. crossing.....	141.5
11.3	Lacolle station.....	153.9
12.7	Lacolle river, water, 158; bed, 155; rail.....	167.0
14.8	Henrysburg station.....	204.4
19.2	Summit, ground, 234; rail.....	232
20.2	Chambly river, bed, 172; rail.....	182.8
21.4	Barrington, junction with Hemmingford branch.....	189.2
22.8	Norton brook, water, 172; bed, 171; rail.....	178.9
24.1	Cranberry brook, bed, 172; rail.....	178.8
25.9	Holton station.....	195.8
27.3	Summit, ground, 208; rail.....	204
31.2	Norton brook, high water, 129; low water, 124; rail.....	141.4
31.4	Aubrey station.....	141.7
35.7	English river, extreme high water, 127; ordinary high water, 125; mean water, 121; extreme low water, 119; rail.....	130
36.7	Howick, junction with Massena Springs branch, 26.9 miles from Brosseau.....	132.5
38.2	Chateauguay river, extreme high water, 128; ordinary high water, 123; rail.....	132.2

Miles from Alburgh Junc.	GRAND TRUNK RAILWAY—OTTAWA DIVISION	Elevation above mean sea level
42.5	St. Louis station.....	135.5
42.8	St. Louis river, water, 130; bed, 124; rail.....	135.7
48.7	Cecile, junction with New York Central R.R., Adirondack division.....	149.6
51.2	Valleyfield station.....	160.2
54.1	River St. Lawrence, steamboat channel, high water, 154.86; stand- ard low water, 152.42; extreme low water (Nov. 5, 1895), 150.80; rail, centre of bridge over steamboat channel.....	173.9
56.6	Coteau, junction with main line, 37.9 miles from Montreal.....	159.5
57.5	River Delisle, water, 155; bed, 148; rail.....	161
60.5	St. Polycarpe station.....	176.0
62.8	St. Polycarpe junction, with Canadian Pacific Ry., Ontario and Quebec line, 40.2 miles from Montreal.....	194.0
67.6	Ste. Justine station, Que.....	247
69.3	Interprovincial boundary.....	247
72.1	Glen Robertson, Ont., junction with Hawkesbury branch.....	263
77.4	River Delisle, water, 222; bed, 220; rail.....	236
78.7	River Garry, bed, 238; rail.....	252
79.6	Alexandria station.....	260
80.9	River Delisle, water, 247; bed, 243; rail.....	262
86.2	Greenfield station.....	346
89.5	Summit.....	385
90.9	Maxville station.....	340
96.9	Moose Creek station.....	292
104.3	Casselman station.....	217
104.4	South Nation river, high water, 188; low water, 181; bed, 178; rail.....	211
107.6	South Indian brook, water, 198; rail.....	220
112.5	South Indian, junction with Rockland branch.....	236
117.4	Vars station.....	253
118.8	Summit, rail.....	257
123.6	Carlsbad Springs station.....	228
128.8	Greens creek, water, 214; rail.....	222
129.5	New York and Ottawa Ry. crossing.....	220.9
133.0	Canadian Pacific Ry., Prescott branch, crossing.....	198
133.2	Rideau river, water, 181; bed, 176; rail.....	194
134.9	Ottawa, Central station.....	213.7
135.8	Chaudière junction.....	206
136.0	Canadian Pacific Ry., Prescott branch, crossing, Can. Pac. Ry., rail, 207; G. T. Ry., rail.....	229
139.3	Summit, rail.....	279
141.5	Graham Bay station.....	225
142.2	Canadian Pacific Ry., main line, crossing, Can. Pac. Ry., rail, 217.7; G. T. Ry. rail.....	241.6
147.5	South March station.....	283.1
153.5	Carp station.....	310.3
154.1	Carp brook, water, 302; rail.....	309.7
161.9	Kinburn station.....	311.5
164.5	Summit, ground, 345; rail.....	338
166.3	Mississippi river, water, 270; rail.....	290.0
166.5	Galetta station.....	292.7
168.8	Marshall Bay station.....	312.2
171.3	Madawaska river, water, 254; bed, 251; rail.....	292
171.6	Arnprior station.....	300
172.0	Canadian Pacific Ry., main line, crossing, 168.0 miles from Montreal.....	300.1
176.8	Dochert brook, bed, 369; rail.....	393
179.2	Glasgow station.....	443
182.3	Summit, ground, 503; rail.....	498
183.1	Goshen station.....	495

GRAND TRUNK RAILWAY

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Miles from
Alburgh Junc.

GRAND TRUNK RAILWAY—OTTAWA DIVISION

Elevation
above mean
sea level

188.0	Renfrew station.....	421.2
189.0	Renfrew junction, Canadian Pacific Ry., Kingston and Pembroke branch, crossing.....	402.8
194.2	Admaston station.....	412
199.9	Douglas station.....	437
202.9	Caldwell station.....	495
210.2	Eganville station.....	570
210.7	Hurd brook, water, 566; rail.....	579
217.9	Golden Lake, junction with Pembroke branch.....	590
218.7	Golden lake, water (Sept. 19, 1913).....	553
227.1	Killaloe station.....	594
228.7	Brennan brook, water, 588; rail.....	597
235.5	Wilno station.....	956
237.4	Summit, "Hagarty pass," ground, 1,024; rail.....	1,021
242.0	Barrys Bay station.....	984
242.0	Lake Kamaniskeg, water (Oct. 2, 1900).....	927
246.3	Otter lake, water, 1,021; rail.....	1,026
246.7	Carson lake, water, 992; rail.....	1,002
250.2	Ground, 1,202; rail.....	1,180
251.3	Aylen Lake station.....	1,157.2
254.0	Gun lake, water, 1,166; rail.....	1,182
254.3	Gun brook, bed, 1,166; rail.....	1,171
257.0	Opeongo Forks.....	1,126
262.8	Opeongo river, water, 1,067; rail.....	1,080
263.1	Madawaska river, water, 1,008; rail.....	1,031
266.7	Madawaska station.....	1,035.0
267.6	Egan Estate station.....	1,093.6
268.9	Macaulay Central junction, with Macaulay Central railway.....	1,053
271.0	Bay of Madawaska river, bed, 1,039; rail.....	1,052
271.2	L'Amable brook, water, 1,119; rail.....	1,134
272.8	L'Amable station.....	1,127
277.9	Madawaska river, water, 1,177; rail.....	1,188
278.9	Rapid lake, water, 1,237; rail.....	1,248
280.4	Whitney, junction with Whitney and Opeongo railway.....	1,268.7
282.0	Long lake, water, 1,281; rail.....	1,290
286.8	Summit, ground, 300 ft. east, 1,330; rail.....	1,320
289.8	Rock lake, water.....	1,281
292.2	Rock Lake station.....	1,292.1
295.7	Whitefish lake, water, 1,281; rail.....	1,294
298.0	Lake of Two Rivers, water, 1,289; rail.....	1,297
300.5	Madawaska river, water (June 23, 1914), 1,294; rail.....	1,309.5
301.8	Madawaska river, water (June 23, 1914), 1,335; rail.....	1,386.0
302.0	Cache lake, water, 1,406; rail.....	1,414
304.8	Algonquin Park station.....	1,418.9
305.9	Summit, ground, 1,509; rail.....	1,497
309.2	Southern lake, water, 1,467; rail.....	1,475
309.4	Joe lake, water (June 25, 1914).....	1,381.4
309.9	Joe Lake station.....	1,395.6
310.0	Canoe lake, water, 1,379; rail.....	1,393
313.9	Canoe Lake station.....	1,392.1
316.3	Potter lake, water, 1,426; rail.....	1,437
317.2	Brulé Lake station.....	1,470.7
318.8	Summit, highest point on the line, rail.....	1,605.0
320.5	Stream, water, 1,517; rail.....	1,546.6
322.2	Rainy lake, water, 1,438; rail.....	1,452
325.0	Rainy Lake station.....	1,452.2
328.0	Rainy river, water, 1,432; rail.....	1,439

Miles from Alburgh Junc.	GRAND TRUNK RAILWAY—OTTAWA DIVISION	Elevation above mean sea level
328.1	Summit, ground, 200 ft. west, 1,536; rail.....	1,527
328.3	Round lake, water, 1,510; rail.....	1,518
333.0	Cashman brook, water, 1,355; rail.....	1,433
333.6	Ravensworth station.....	1,411.7
335.9	Tonawanda river, water, 1,261; rail.....	1,292.9
337.1	Lake, water, 1,260; rail.....	1,267
340.8	Kearney station.....	1,109.8
346.2	Scotia, junction with Toronto and North Bay division.....	1,081.8*
349.4	Government road crossing.....	1,143
350.6	Summit, ground, 1,151; rail.....	1,146
351.7	Mud Lake siding.....	1,138
355.1	Depression, bed, 1,013; rail.....	1,028
357.1	Sprucedale station.....	1,074.5
360.1	Whitehall station.....	1,097.8
363.7	Bear Lake station.....	1,038.3
364.1	Bear lake, water.....	1,030
366.6	Seguin river, water (Aug. 7, 1914), 969.5; rail.....	980.6
369.2	Seguin Falls station.....	962.8
369.7	Seguin river, water, 936; rail.....	979.7
373.8	Lake, water, 950; rail.....	961
374.7	Diamond lake, water, 892; rail.....	896
375.1	Edgington station.....	891.3
377.7	Branch of Seguin river, water, 746; bed, 739; rail.....	775
377.7	Marsh, Maple and Duck lakes, water.....	746
378.5	Maple Lake station.....	797.0
380.9	Beatty siding (summit), ground, 914; rail.....	901.2
384.1	Pender lake, water, 839; rail.....	851
386.8	Falding station (closed).....	770
388.1	Otter Lake station.....	736.9
389.0	Otter lake, water.....	681
389.5	Boyne river, water, 681; bed, 678; rail.....	688
389.8	Potabawinnana lake, water.....	676
390.6	James Bay junction, with Canadian Northern Ry., Toronto and Capreol.....	686.3
391.1	Canadian Northern Ry., Toronto and Capreol, crossing, C. N. Ry., rail, 686; G. T. Ry., rail.....	660
391.1	Canadian Pacific Ry., Toronto and Sudb..... Can. Pac. Ry., rail, 684; G. T. Ry., rail.....	659
392.1	Boyne river, water, 623; rail.....	635
393.8	Rose Point station.....	600.2
396.6	Depot Harbour station.....	590
	Lake Huron, mean water (1871-1900).....	581
Miles from Glen Robertson	GRAND TRUNK RAILWAY—HAWKESBURY BRANCH	
0.0	Glen Robertson, junction with Ottawa division, 72.1 miles from Alburgh junction.....	263
3.6	Glen Sandfield road.....	240
6.1	Summit, ground, 249; rail.....	244
7.2	Dalkeith station.....	232
8.0	Rivière à la Graise, water, 204; bed, 198; rail.....	218
12.3	Summit.....	322
13.7	Vankleek Hill station.....	297
15.3	Canadian Pacific Ry., main line, crossing.....	263.8
21.1	Hawkesbury station.....	143

*By levels of Dept. of Interior, 1,081.3

GRAND TRUNK RAILWAY

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Miles from
South
Indian

GRAND TRUNK RAILWAY—ROCKLAND BRANCH

Elevation
above mean
sea level

0.0	South Indian, junction with Ottawa division, 112.5 miles from Alburgh junction.....	236
5.2	Bear brook, water, 165; rail	201
5.3	Cheney station.....	210
7.3	Canadian Pacific railway, main line, crossing, 88.9 miles from Montreal.....	219.6
7.7	Hammond station.....	220
8.1	South branch North Indian brook, water, 202; rail.....	211
11.9	Clarence Creek station (summit).....	270
16.0	Rockland station.....	185

Miles from
Golden Lake

GRAND TRUNK RAILWAY—PEMBROKE BRANCH

0.0	Golden Lake, junction with Ottawa division, 217.9 miles from Alburgh junction.....	590
0.3	Bonnechere river (Golden lake), water (Sept. 19, 1913), 553; bed, 551; rail.....	569
2.8	Brook, water, 601; rail.....	602
4.5	Summit, ground 300 ft. north, 621; rail	611
6.5	Depression, ground, 506; rail.....	510
7.0	Black brook, bed, 501; rail	532
10.0	Woitto station.....	648
10.2	Summit, ground, 654; rail.....	649
11.1	Brook, bed, 599; rail.....	607
12.1	Brook, bed, 567; rail.....	587
13.9	Ledgerwood brook, water, 475; rail	501
14.6	Locksley station.....	511
19.9	Muskrat river, water, 390; rail	416
21.1	Pembroke station	392

Miles from
Belleville

GRAND TRUNK RAILWAY—BELLEVILLE AND MIDLAND BRANCH

0.00	Belleville wharf, mean water, L. Ontario, 245.8; rail.....	250
0.47	" City station.....	251
2.26	" junction, with main line, Montreal to Chicago, 220.7 miles from Montreal.....	286.0
4.92	Corbyville station.....	334
8.50	Moir river, water, 332; rail.....	347
8.63	Foxboro station.....	349
12.74	Halloway station.....	467
14.51	Madoc junction, with Madoc branch.....	503
16.13	Rawdon creek, water, 423; bed, 417; rail	428
19.70	Stirling station.....	406
21.87	Anson, junction with Canadian Northern railway, Picton and Maynooth branch.....	396.9
25.61	Hoard station.....	382.8
32.60	Trent river, high water, 466; low water, 461; bed, 458; rail	492.9
33.02	Campbellford station	496.9
43.36	Hastings station.....	619.2
44.06	Trent river, water, 609; rail	631.2
48.60	Ouse river, water, 613; bed, 610; rail	623.1
49.10	Birdsall station.....	646.3
51.60	Bleazard station.....	709.4
52.80	Summit, ground, 762; rail.....	754
52.87	Keene Summit siding	752

Miles from
BellevilleGRAND TRUNK RAILWAY—BELLEVILLE AND
MIDLAND BRANCHElevation
above mean
sea level

55.93	Keene station.....	634.1
56.02	Indian river, water, 629; bed, 627; rail.....	635.5
59.26	Drummond station.....	693.1
63.54	Lakefield junction (closed).....	652.8
64.15	West branch Otonabee river, water, navigation level, 620.4; rail.....	634.2
65.14	Canadian Pacific railway, Ontario and Quebec line, crossing.....	637.6
65.56	Peterborough, junction with Lakefield branch and Port Hope and Peterborough branch.....	647.8
65.83	Lakefield switch.....	656
71.00	Stream, bed, 797; rail.....	836
71.56	Best station.....	885.0
73.13	Summit.....	936
74.33	Stream, bed, 817; rail.....	895
78.47	Pigeon creek, water (Aug. 12, 1899), 807; rail.....	823.8
79.47	Omamee, junction with Omamee and Millbrook branch.....	855.9
83.10	Reaboro station.....	850.5
87.65	Canadian Pacific Ry. crossing, C.P. Ry., rail, 829.1; G.T. Ry., rail.....	858.1
87.68	Scugog river, water (Aug. 14, 1899), 821; rail.....	857.9
88.25	Lindsay, junction with Whitby and Lindsay branch.....	852.9
94.11	Cambray station.....	870.3
99.35	Grass Hill station.....	948.5
100.26	Summit.....	968
103.37	Lorneville, junction with Cobocok branch.....	889.4
110.70	Beaverton station.....	760.5
111.50	Stream, water, 728; rail.....	750.3
113.76	Trent canal, water (Nov. 23, 1908), 717.5; rail.....	746.9
113.95	Canadian Northern Ry., Toronto and Capreol, crossing, C.N. Ry., rail, 725.3; G.T. Ry., rail.....	749.7
115.17	Gamebridge station.....	800.6
118.59	Brechin.....	744.7
121.76	Schepeler.....	729.7
126.03	Uptergrove.....	735.8
127.52	Atherley, junction with Toronto and North Bay division, south track.....	727.0
127.65	Narrows between lakes Simcoe and Couchiching, water (Nov. 23, 1908), 717.5; (June 8, 1913), 718.6; flood (1912), 721.1; rail.....	726.7
130.60	Orillia, junction with Toronto and North Bay division.....	723.5
134.51	Summit.....	776.0
134.59	Silver Creek station.....	745.4
138.51	Uhthoff.....	698.4
141.40	Foxmead.....	677.8
142.93	Tait station.....	639.4
144.00	Canadian Pacific Ry., Toronto and Sudbury, crossing.....	619.1
145.90	Coldwater river, water, 584; bed, 581; rail.....	619.3
146.16	Coldwater station.....	588.0
148.23	Fesserton.....	588.5
150.37	Waubashene station.....	592.7
152.67	Sturgeon Bay station.....	589.9
156.11	Victoria Harbour station.....	595.0
161.97	Tiffin station.....	598.2
163.72	Midland station.....	593.2
	Lake Huron, mean water (1871-1900).....	71.0

GRAND TRUNK RAILWAY

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Miles from
Lindsay

GRAND TRUNK RAILWAY—HALIBURTON BRANCH

Elevation
above mean
sea level

0.00	Lindsay, junction with Whitby and Lindsay and Belleville and Midland divisions.....	852.9
1.70	Canadian Pacific Ry., Port McNicoll branch, crossing, C. P. Ry., rail, 861.5; G.T. Ry., rail.....	833
4.50	McLaren creek, high water, 816; rail.....	821
7.29	Cameron station.....	897
11.05	Hall station.....	855
14.00	Fenelon Falls station.....	846
14.42	Trent canal, water (Aug. 15, 1899), 836.5; rail.....	851
19.10	Fells station.....	854
21.81	Burnt river, water (Aug. 16, 1899), 840; bed, 821; rail.....	861
24.64	Burnt River station.....	868
30.78	Craigos creek, water, 886; bed, 881; rail.....	912
33.50	Kinmount station.....	919
35.80	Kinmount junction, with Canadian Northern Ry., Irondale branch.....	935
35.91	West branch Burnt river, water, 916; rail.....	943
42.88	Gelert station.....	1,032
43.00	Branch of Burnt river, water, 1,019; rail.....	1,036
47.12	Lochlin station.....	1,082
49.19	Dysart station (closed).....	1,097
51.60	Summit.....	1,126
53.24	Gould station.....	1,081
55.75	Haliburton station.....	1,050

Miles from
Scarborough

GRAND TRUNK RAILWAY—COBOCONK BRANCH

0.00	Scarborough, junction with main line, Montreal and Chicago, 325.0 miles from Montreal.....	546.5
1.30	Canadian Northern Ry., crossing, C.N. Ry., rail, 547; G.T. Ry., rail.....	572
4.52	Canadian Pacific Ry. crossing, Can. Pac. Ry., rail, 568; G.T. Ry., rail.....	544
4.85	Agincourt station.....	567
7.73	Millikens station.....	659
8.39	Summit, rail.....	665
10.72	Unionville station.....	575
10.98	Rouge river, water, 551; bed, 547; rail.....	575
13.43	Markham station.....	640
15.86	Rouge river, water, 662; bed, 657; rail.....	675
19.73	Stouffville, junction with Sutton branch.....	92
25.34	Goodwood station.....	1
26.17	Summit, rail.....	50
32.04	Uxbridge station.....	53
35.70	Marsh Hill station.....	55
39.96	Wick station.....	50
41.90	Blackwater, junction with line to Lindsay via Manilla junction.....	
43.97	Sunderland station.....	
49.79	Cannington station.....	
53.84	Woodville station.....	
55.62	Lorneville, junction with Belleville and Midland branch.....	
57.71	Argyle station.....	
57.90	Canadian Pacific Ry., Port McNicoll branch, crossing.....	
61.80	Eldon station.....	
65.27	Portage Road station.....	
66.89	Kirkfield station.....	
69.57	Victoria Road station.....	
72.54	Corson siding.....	
78.09	Coboconk station.....	
	Balsam lake, water.....	

Miles from
Stouffville

GRAND TRUNK RAILWAY—SUTTON BRANCH

Elevation
above mean
sea level

0.00	Stouffville, junction with Cobocok branch.....	892
3.76	Summit.....	1 121
5.89	Ballantrae station.....	1,108
8.57	Vivian.....	990
12.68	Mount Albert station.....	795
15.40	Canadian Northern Ry., Toronto and Capreol, crossing.....	761
16.36	Zephyr station.....	767
19.04	Brown Hill station.....	754
22.02	Baldwin.....	743
25.22	Sutton.....	758
26.91	Jackson Point station.....	726
26.91	Lake Simcoe, summer water.....	720

Miles from
Port HopeGRAND TRUNK RAILWAY—PORT HOPE AND
PETERBOROUGH BRANCH

	Port Hope, wharf, mean water, L. Ontario, 245.8; rail.....	253
0.00	" junction, with main line, 270.8 miles from Montreal..	286.5
0.40	Canadian Pacific Ry., Lake Ontario Shore line, crossing, C.P.Ry., rail, 299; G.T.Ry., rail.....	280
0.50	Port Hope, Midland station.....	265
2.00	Canadian Northern Ry. crossing, C.N.Ry., rail, 355; G.T.Ry., rail.....	312
5.68	Quay station.....	474
6.49	Ballast pit switch.....	531
8.28	Perrytown station.....	640
9.55	Garden Hill station.....	626
14.08	Carmel.....	906
17.92	Millbrook, junction with line to Omemee.....	768
21.95	Summit station.....	680
23.27	Fraserville station.....	638
30.53	Canadian Pacific Ry., Ontario and Quebec line, crossing.....	637.0
30.95	Peterborough, junction with Belleville and Midland and Lakefield branches.....	647.8

Miles from
Port HopeGRAND TRUNK RAILWAY—MILLBROOK AND
OMEMEE BRANCH

17.9	Millbrook, junction with Port Hope and Peterborough branch...	768
20.6	Summit, rail.....	879
21.73	Canadian Pacific Ry. crossing, Can. Pac. Ry., rail, 865; G.T.Ry., rail.....	836
22.67	Depression, rail.....	793
23.94	Summit, rail.....	873
24.48	Bethany station.....	862
26.27	Brunswick station.....	865
28.10	Franklin station.....	893
28.44	Summit, rail.....	895
32.08	Depression, rail.....	816
33.04	Omemee, junction with Belleville and Midland branch, 79.47 miles from Belleville.....	855.9

Miles from
WhitbyGRAND TRUNK RAILWAY—WHITBY AND LINDSAY
BRANCH

0.00	Whitby, wharf, mean water, lake Ontario (1871-1899), 245.8; rail	251
0.36	" junction, with main line, 305.0 miles from Montreal...	276.3
2.29	" Midland station.....	287

Miles from Whitby	GRAND TRUNK RAILWAY—WHITBY AND LINDSAY BRANCH	Elevation above mean sea level
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5.90	Canadian Northern Ry., Toronto and Ottawa, joining	487
7.56	Brooklin station	538
11.30	Myrtle station	821
12.20	Canadian Pacific Ry. crossing, C.P. Ry., rail, 870; G. T. Ry., rail	895
14.37	Summit, rail	1 029
14.41	High Point station	1,027
16.21	Manchester "	954
18.53	Prince Albert "	890
19.96	Port Perry "	827
20.00	Lake Scugog, water (Dec., 1891)	819
27.30	Seagrave station	838
27.48	Nonquon river, water, " rail	830
29.22	Sonya station	899
33.06	Cresswell station	976
33.23	Summit, rail	983
33.71	Manilla, junction with line to Blackwater junction	962
38.65	Marijosa station	865
42.58	Ops station	882
46.30	Lindsay, junction with Belleville and Midland and Haliburton branches	852.9

Miles from Peterborough	GRAND TRUNK RAILWAY—LAKEFIELD BRANCH	
0.00	Peterborough, junction with Belleville and Midland branch	647.8
0.27	Lakefield switch	656
1.50	Auburn Mills station	678
3.40	Nassau Mills "	708
9.24	Lakefield station	770
9.46	" wharf	770
	Kitchiwanoo lake, water (Oct. 30, 1895)	766

Miles from Peterborough	GRAND TRUNK RAILWAY—CHEMONG BRANCH (Disused)	
0.00	Peterborough, junction with Belleville and Midland branch	647.8
0.27	Lakefield switch	656
4.60	Summit, ground, 1925; rail	916
9.21	Chemong station	816
9.27	Chemong lake, water	805

Miles from Belleville	GRAND TRUNK RAILWAY—MADOC BRANCH	
14.51	Madoc junction, with Belleville and Midland branch	503
20.00	Rawdon creek, bed	465
23.00	" "	548
23.08	Canadian Pacific railway crossing, Can. Pac. Ry., rail, 584; G. T. Ry., rail	559
23.33	Crookston station, nearly	563
24.00	White lake, water	563
26.00	Summit, granite ridge	570
27.50	Moirs lake, water	510
29.46	Madoc station	575
30.80	Road crossing	596
32.40	Stream, bed 645; rail	674
33.40	Seymour mine, rail	749
34.90	Summit, rail	815
35.50	Road bridge, under crossing, rail	806
36.20	Eldorado station	773

Abandoned

ALTITUDES IN CANADA

Miles from Toronto	GRAND TRUNK RAILWAY—TORONTO AND NORTH BAY	Elevation above mean sea level
0.0	Toronto, Union station.....	254
2.2	North Parkdale station.....	304.3
4.2	Canadian Pacific Ry. crossing.....	398
4.6	Davenport station.....	414.8
6.3	Fairbank, junction with Belt line (disused).....	514.0
7.5	Downsview station.....	576.1
11.5	Elia station.....	643.8
14.0	Concord station.....	629.7
18.0	Maple station.....	812.8
18.5	Long siding.....	842.0
22.4	King station.....	956.4
25.1	Schomberg and Aurora Ry. crossing.....	979.4
26.3	Summit, ground, 1,021; rail.....	1,002
27.2	Cherry station.....	980
28.0	Metropolitan Electric Ry. crossing, M. E. Ry., rail, 955; G. T. Ry., rail.....	929.1
29.7	Aurora station.....	883.7
34.0	Newmarket station.....	769.8
37.6	Holland Landing station.....	741.6
40.7	Holland river, bed, 706; rail.....	724.4
41.2	Bradford station.....	724.1
44.0	Scanlon station (closed).....	740.2
48.7	Gilford ".....	750.5
51.6	Lefroy ".....	768.8
56.5	Bramley ".....	886.0
57.2	Craigvale ".....	879.3
62.7	Allandale, junction with Meaford and Hamilton and Allandale branches.....	734.2
64.0	Barrie station.....	725.7
69.5	Gowan station.....	817.4
70.7	Summit, ground, 842; rail.....	839
74.1	Oro station.....	789.0
77.7	Hawkestone station.....	780.1
80.2	Carthew station.....	813.0
80.6	Summit, ground, 826; rail.....	819
86.0	Orillia, junction with Belleville and Midland division.....	723.5
88.1	Narrows between lakes Simcoe and Couchiching, flood (1912), 721.1; low water (Nov. 23, 1908), 717.5; rail.....	726.7
88.2	Atherley, junction with Belleville and Midland division, north track	725.8
88.6	Canadian Pacific Ry., Port McNicoll branch, crossing.....	727
92.5	Rama station.....	739.1
93.5	Longford station.....	732.6
94.5	Summit, rail.....	765
97.6	Severn river, East br., water (Oct. 17, 1900), 717.9; bed, 706; rail	727.8
98.2	Canadian Northern Ry., Toronto and Capreol, crossing.....	725.2
98.5	Washago station.....	727.2
99.1	Severn river, West branch, water (Oct. 17, 1900), 717.9; rail.....	731.0
100.1	Severn station.....	727.8
100.3	Severn river, water, 697; rail.....	724.0
104.0	Kashabogamog river, water, 710; rail.....	719.5
105.9	Kilworthy station.....	747.4
109.4	Summit.....	851
111.4	Gravenhurst, junction with Muskoka Wharf spur.....	815.1
112.4	Muskoka Wharf station.....	743.8
	Muskoka lake, low water, 738; navigation level, 739.5; high water	742.5

GRAND TRUNK RAILWAY

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Miles from
Toronto

GRAND TRUNK RAILWAY—TORONTO AND NORTH BAY

Elevation
above mean
sea level

117.8	Summit, rail.....	906
120.5	South branch Muskoka river, water, 745; bed, 730; rail.....	801.9
121.3	North branch Muskoka river, water, 778; bed, 776; rail.....	816.6
122.2	Bracebridge station.....	812.3
126.9	Falkenburg station.....	952.3
128.0	Summit, ground, 1,064; rail.....	1,053
131.8	Depression, ground, 978; rail.....	993
135.1	Utterson station.....	1,035.7
135.8	Summit, ground, 1,066; rail.....	1,052
138.4	Allensville, road crossing.....	964.7
139.9	Caswell lake, water.....	996
141.0	Summit, ground, 500 ft. north, 1,061; rail.....	1,044
145.9	Huntsville station.....	951.2
146.1	Vernon lake, water.....	931
146.5	Vernon river, water (June 22, 1906), 930; rail.....	965.6
147.8	Summit, ground, 1,008; rail.....	997.1
150.2	East river, water, 934; rail.....	957
155.4	Novar station.....	1,070.4
156.3	Little East river, water, 1,062; rail.....	1,072
159.3	Summit, ground, 1,147; rail.....	1,134
161.0	Scotia, junction with Ottawa division, 346.2 miles from Alburgh junction.....	1,081.8
162.9	Emsdale station.....	1,038.5
165.7	South branch Maganetawan river, 1st crossing, water, 966; rail..	983.7
166.6	Katrine station.....	983.5
169.1	South branch Maganetawan river, 2nd crossing, water, 963; rail..	977.0
170.4	South branch Maganetawan river, 3rd crossing, water, 956; rail..	970.0
170.9	Burks Falls station.....	970.6
175.6	Summit, ground, 1,156; rail.....	1,135
178.2	Stony brook, water, 1,083; rail.....	1,089
178.4	Stony lake, water, July, 1906.....	1,083
182.6	Sundridge station.....	1,099.9
185.2	Summit, ground, 1,192; rail.....	1,185
188.4	South River station.....	1,157.9
188.6	South river, water, 1,146; bed, 1,131; rail.....	1,156.9
191.1	Beacon brook, water, 1,189; rail.....	1,196
192.9	Gravel-pit siding.....	1,196
193.6	Ravine, bed, 1,084; rail.....	1,175
197.2	Towner siding.....	1,034
199.1	Beaver brook, water, 1,017; rail.....	1,026.0
199.6	Trout Creek station.....	1,026.8
200.7	Summit.....	1,042
203.6	Barrett, road crossing.....	977.7
207.0	Powassen station.....	855.4
207.4	McGuinness brook, water, 825; rail.....	856.1
211.2	Summit, ground, 906; rail.....	889
213.1	Road crossing, Chisholm and Ferris town-line.....	783
216.3	Wistawasing brook, water, 730; rail.....	743.5
216.4	Booth, Nipissing and Nosbonsing Ry. crossing.....	742.6
219.1	Callander station.....	670.2
222.2	La Vase river, water, 665; rail.....	674.9
222.8	Nipissing, Canadian Pacific Ry., main line, crossing.....	
	By levels from Toronto.....	674.7
	By levels from Montreal.....	673.6
227.2	North Bay station.....	662

Miles from Allandale	GRAND TRUNK RAILWAY—MEAFORD BRANCH	Elevation above mean sea level
0-0	Allandale, junction with Toronto and North Bay division, 62.7 miles from Toronto.....	734.2
5.5	Colwell, junction with Penetanguishene branch.....	748.1
8.3	Canadian Pacific railway, Toronto and Sudbury, crossing.....	703.3
8.9	Utopia station.....	691.0
9.6	Nottawasaga river, bed, 581; rail.....	630.5
10.3	Angus station.....	627.0
13.3	Brentwood station.....	645.2
15.2	New Lowell station.....	687.1
16.8	Sunnidale station.....	720
22.8	Stayner station.....	713.5
28.0	Batteaux brook, bed, 665; rail.....	686
28.1	Batteaux station.....	684.2
31.4	Collingwood station.....	590.5
32.1	Lake junction, with Collingwood branch.....	590
37.0	Craigleith station.....	599
41.0	Fields station.....	611
41.6	Beaver river, water, 584; rail.....	612
43.8	Thornbury station.....	613
52.5	Meaford station.....	673
	Lake Huron, mean level.....	581.0
	GRAND TRUNK RAILWAY—PENETANGUISHENE BRANCH	
Miles from Colwell		
0-0	Colwell, junction with Meaford branch.....	748.1
2.5	Canadian Pacific railway, Toronto and Sudbury, crossing.....	735.0
3.3	Vespra station.....	721
6.0	Budd station (closed).....	620
7.8	Minessing station.....	620
9.2	Summit.....	759
11.3	Hendrie station.....	739
13.7	Phelpston ".....	725
18.5	Elmvale ".....	699
20.5	Saurin ".....	700
21.5	Birch, junction with branch to Midland.....	691
26.0	Wyebridge station.....	669
30.4	Tay station.....	603
33.6	Midland, junction with Belleville and Midland branch.....	593.2
22.3	Dyment station (closed).....	713
23.8	Wyevale ".....	767
28.0	Perkinsfield station (summit).....	791
33.3	Penetanguishene station.....	590
	GRAND TRUNK RAILWAY—HAMILTON AND PORT DOVER BRANCH	
Miles from Port Dover		
0-0	Lake Erie, mean level (1871-1899).....	572.3
0.0	Port Dover station.....	577
7.1	Nanticoke creek, water, 650; rail.....	670
8.7	Loop Line crossing, Loop line, rail, 702; H. & P. D. Br., rail.....	681.5
9.0	Jarvis, junction with Loop line.....	699
11.5	Garnet station.....	698
14.5	Hagersville, Michigan Central R.R., main line, crossing.....	737
16.3	Ballsville station.....	694
18.5	Boston creek, water, 643; rail.....	666

GRAND TRUNK RAILWAY

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Miles from Port Dover	GRAND TRUNK RAILWAY—HAMILTON AND PORT DOVER BRANCH	Elevation above mean sea level
20.9	Mackenzie creek, water, 629; rail.....	641
23.2	Grand river, water, 611; rail.....	652
24.0	Caledonia, junction with Buffalo and Goderich branch.....	660
25.6	Black creek, water, 633; rail.....	656
27.9	Chippawa creek, water, 663; rail.....	685
29.0	Glanford station.....	724
29.6	Summit.....	739
31.3	Twenty-mile creek, water, 683; rail.....	699
34.5	Rymal station.....	645
35.0	Brow of Niagara escarpment, ground, 639; rail.....	636
40.0	Toronto, Hamilton and Buffalo Ry. crossing, rail.....	328
40.3	Hamilton, King St. station.....	306
42.1	" Stuart St. station.....	254.1

Miles from Hamilton	GRAND TRUNK RAILWAY—HAMILTON AND ALLANDALE BRANCH	
0.00	Hamilton, King St. station.....	306
1.61	" Wentworth St. station.....	267
5.78	Beach Road station.....	255
6.40	Dyne ".....	256
7.56	Elsinore ".....	257
8.26	Ocean House ".....	256
8.50	Burlington canal, mean water (lake Ontario), 245.8; rail.....	261
8.66	Hargrove station.....	258
9.12	Gibson Landing station.....	254
10.17	Burlington station.....	281
11.33	Burlington junction, with Toronto and Hamilton branch.....	327.0
16.85	Tansley station.....	517
17.34	Twelve-mile creek, water, 434; bed, 428; rail.....	524
18.75	Ash station.....	574
25.13	Milton station.....	662
25.41	Canadian Pacific Ry., O. & Q. div., crossing, 32.6 miles from Toronto.....	662
28.13	Mansewood station.....	733
33.79	Stewarton station.....	874
33.85	Credit mill-pond, water, 822; rail.....	874
36.14	Georgetown junction, with main line, Montreal and Chicago, 363.8 miles from Montreal.....	872
36.71	Georgetown station.....	847
39.40	Glen Williams station.....	913
42.03	Terra Cotta ".....	894
44.72	Cheltenham ".....	922
47.40	Inglewood, Can. Pac. Ry., Orangeville branch, crossing.....	898
48.20	Credit river, water, 882; bed, 880; rail.....	894
52.15	Canadian Pacific Ry., Owen Sound branch, crossing, C.P.Ry., rail, 973; G.T.Ry., rail.....	951
52.90	Summit, ground, 968; rail.....	966
53.77	Caledon East station.....	947
56.78	Centreville station.....	928
59.70	Humber river, bed, 868; rail.....	918
60.00	Palgrave station.....	932
60.98	Summit, rail.....	970
66.04	Tottenham station.....	835
67.28	Hammell creek, bed, 758; rail.....	795
68.80	Canadian Pacific Ry., Toronto and Sudbury, crossing, C.P.Ry., rail, 779; G.T.Ry., rail.....	752

Miles from Hamilton	GRAND TRUNK RAILWAY—HAMILTON AND ALLANDALE BRANCH	Elevation above mean sea level
70.73	Beeton, junction with Collingwood branch.....	728
72.38	Collingwood branch switch.....	717
73.78	Nottawasaga river, bed, 680; rail.....	705
79.61	Cookstown station.....	759
85.51	Thornton station.....	943
87.00	Summit.....	996
90.43	Vine station.....	924
93.90	Innisfil station.....	819
95.41	Allandale, junction with Meaford branch and Toronto and North Bay division.....	734.2
Miles from Beeton	GRAND TRUNK RAILWAY—COLLINGWOOD BRANCH	
0.0	Beeton, junction with Hamilton and Allandale branch.....	728
2.2	Junction switch.....	717
4.3	Thompsonville station.....	723
4.5	Nottawasaga river, water, 700; bed, 690; rail.....	719
5.7	Canadian Pacific railway, Toronto and Sudbury, crossing.....	725.5
6.6	Alliston station.....	723
11.1	Everett station.....	795
12.1	Pine river, water, 720; bed, 708; rail.....	754
13.8	Tioga station.....	754
17.1	Lisle station.....	743
20.3	Glencairn station.....	738
22.9	Avening ".....	779
25.1	Creemore ".....	850
29.4	Glen Huron station.....	1,034
29.9	Summit, ground, 1,056; rail.....	1,052
33.2	Duntroon station.....	938
37.9	Nottawa station.....	707
40.9	Lake junction, with Meaford branch.....	590
41.5	Collingwood, old H. & N. W. Ry. station.....	592
	station.....	589
	Lake Huron, mean level.....	581.0
Miles from Union Station	GRAND TRUNK RAILWAY—BELT LINE Yonge Street Loop (disused)	
0.00	Toronto, Union station.....	254
2.05	Queen St. East ".....	264
2.90	Winchester Street ".....	270
3.75	Don Valley ".....	263
4.23	Rosedale ".....	299
5.27	Moore Park ".....	452
6.03	Yonge St. North ".....	506
6.50	Upper Canada College station.....	511
7.45	Eglinton Avenue ".....	538
7.93	Forest Hill station.....	578
9.16	Fairbank station.....	581
10.10	Fairbank, junction with Toronto and North Bay line.....	514.0
Miles from Carlton	Humber Loop (disused)	
0.00	Carlton station.....	406
0.70	Symes ".....	384
1.67	Lambton ".....	400
1.78	Canadian Pacific Ry. crossing.....	400
3.13	Bloor St. West station.....	323
4.37	Swansea station.....	255

GRAND TRUNK RAILWAY

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Miles from
Suspension
Bridge, N.Y.

GRAND TRUNK RAILWAY—MAIN LINE—NIAGARA FALLS AND WINDSOR

Elevation
above mean
sea level

0.0	Suspension Bridge station, N.Y.	573
0.2	Niagara river, water, 342; ground, east side of cañon, 549; west side of cañon, 557; rail	573
0.4	Niagara Falls station	573
1.4	Clifton, junction with Allanburg branch	582
3.0	St. David station	609
5.2	St. David valley, ground, 480; rail	517
9.7	Merritton, junction with Welland branch	397.4
9.9	Welland canal (old), bed, 371; rail	389
11.2	St. Catharines viaduct, bed, 263; rail	347
11.8	St. Catharines station	347.5
14.8	Fifteen-mile creek, water, 246; rail	305
15.8	Sixteen-mile creek, water, 246; rail	299
17.4	Jordan station	308.4
17.7	Twenty-mile creek, water, 246; rail	308
23.2	Beamsville station	296.2
25.8	Grimsby Beach station	303.0
27.4	Grimsby	287.6
32.2	Winona	285.6
37.5	Stoney Creek	273.3
39.6	Gage station	279
40.8	Race-course siding	270
43.9	Hamilton, Stuart St., junction with the Toronto and Hamilton, Hamilton and Port Dover and Hamilton and Allandale branches	254.1
45.3	Desjardins canal, water, 246; rail	289
45.9	Junction cut	319
50.0	Cutting, ground, 555; rail	504
50.2	Dundas station	513.0
54.2	Summit of drift hills, ground, 773; rail	735
55.3	Copetown station	747.5
59.7	Lynden, junction with old main line	751.5
63.7	Harrisburg, junction with Tillsonburg and Southampton branches	734
64.5	Fairchild creek (St. George viaduct), water, 668; rail	726
64.6	St. George station	726
67.0	Dumfries	811
68.0	Summit station	840
69.9	Lake Erie and Northern Ry. crossing, L. E. & N. Ry., rail, 779; G. T. Ry., rail	802
70.0	Grand river, water, 751; rail	804
64.0	Alford, junction with Tillsonburg branch	711.0
68.4	Brantford, junction with Buffalo and Goderich and Tillsonburg branches	705.9
75.2	Lake Erie and Northern Ry. crossing, L. E. & N. Ry., rail, 795; G. T. Ry., rail	820
75.6	Paris station	828.9
76.2	Paris junction, with Buff. & Goderich branch and old main line	844.3
79.1	Nith creek, bed, 798; rail	851
83.2	Princeton station	934.6
83.9	Horner creek, bed, 878; rail	917
85.4	Goble station	936.0
88.1	Governors Road siding	968
90.1	Eastwood station	973.6
91.9	Summit, ground, 1,022; rail	1,008
94.8	Stratford and Port Dover Branch crossing	760
95.0	Woodstock, junction with Stratford and Port Dover branch	958.8

Old main line

Miles from
Suspension
Bridge, N.Y.

GRAND TRUNK RAILWAY—MAIN LINE—NIAGARA
FALLS AND WINDSOR

Elevation
above mean
sea level

96.1	Canadian Pacific Ry., Ingersoll branch, crossing.....	929.4
96.4	Thames river, bed, ⁰⁰⁰ 0; rail.....	923
99.9	Beachville station.....	906.1
104.4	Ingersoll station.....	878.2
104.5	Thames river, at Ingersoll, water.....	859
113.8	Dorchester station.....	851.6
122.2	London East station.....	828.4
123.5	London, junction with London and St. Marys branch and Pere Marquette R. R.....	805.7
123.9	North branch Thames river, bed, 753; rail.....	797
124.9	Cove of Thames river, bed, 740; rail.....	784
127.6	Hyde Park, junction with London and Wingham branch.....	873.6
130.9	Lobo station.....	861
133.6	Komoka, junction with Sarnia branch.....	809.4
138.4	Mount Brydges station.....	819.7
144.3	Longwood station.....	750.8
146.8	Michigan Central R. R., St. Clair division, crossing.....	742.8
149.3	Appin station.....	741.0
154.0	Glencoe, junction with "Loop Line" and Kingscourt branch.....	729.6
160.2	Newbury station.....	701.7
165.4	Bothwell station.....	687.5
172.9	Thamesville station.....	620.6
174.0	Thames river, bed, 587; rail.....	621
178.9	Northwood station.....	611.9
182.6	Vosburg station.....	605.4
187.1	Chatham junction, with Pere Marquette R. R.....	598.1
187.9	Chatham station.....	595.9
192.2	Canadian Pacific Ry., Ontario and Quebec, main line, crossing.....	589.3
196.2	Prairie siding.....	581.9
201.6	Jeanette station.....	580.3
207.6	Stony Point station.....	584.7
211.4	St. Clair ".....	583.5
216.4	Belle River ".....	582.8
216.8	Belle river, bed, 566; rail.....	586
220.4	Puce station.....	582.8
223.7	Pike Creek station.....	588.9
225.5	Tecumseh ".....	587.0
232.2	Walkerville, junction with Pere Marquette R. R.....	586.5
233.6	Windsor station.....	579.1*
233.7	Detroit river at Windsor, high water, 577.8; low water, 574.1; mean level.....	575.6

GRAND TRUNK RAILWAY—TORONTO AND
HAMILTON

Miles from
Hamilton

0.00	Hamilton, Stuart St., junction with main line, Niagara Falls and Windsor, and Hamilton and Port Dover branch.....	254.1
4.28	Waterdown station.....	341.2
6.99	Burlington junction, with Hamilton and Allandale branch.....	327.0
13.18	Bronte creek, water (April 10, 1907), 294; rail.....	343
13.33	Bronte station.....	344.6
17.23	Brook, water, 275; bed, 251; rail.....	330
17.57	Oakville station.....	328.3
22.82	Clarkson ".....	323.4
23.89	Lorne Park station.....	308.4
25.73	Credit river, water (April 17, 1907), 247; rail.....	265

* According to U. S. Lake Survey levels, 580.3, nearly

GRAND TRUNK RAILWAY

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Miles from Hamilton	GRAND TRUNK RAILWAY—TORONTO AND HAMILTON	Elevation above mean sea level
25.84	Port Credit station.....	278.8
27.96	Rifle Ranges ".....	291.8
29.20	Etobicoke river, water, 249; rail ..	288
29.91	Long Branch station.....	311.7
32.26	Mimico ".....	302.1
33.09	Mimico river, water 248; rail ..	283
34.00	Humber river, water 246; rail. .	262
35.18	Sunnyside station.....	255
36.23	Toronto, South Parkdale station ..	286
36.64	" Dufferin St. ".....	292
38.71	" Union station.....	254

Miles from Fort Erie	GRAND TRUNK RAILWAY—LOOP LINE	
0.00	Fort Erie, Loop Line station	609
2.15	Michigan Central R.R., Fort Erie division, crossing	606
7.33	Stevensville station	590.0
13.89	Brookfield ".....	596
16.63	Welland junction, with Welland branch.....	579.5
17.12	Welland canal, water (lake Erie), 572.4; rail.....	586
19.40	Welland Canal feeder, water, 579; rail	587
20.28	Feeder siding.....	586
22.42	Forks creek, bed, 560; rail	576
24.26	Marshville station.....	581
27.38	Overholt ".....	586
31.88	Moulton ".....	588
33.78	Diltz station.....	588
37.29	Mud creek, bed, 581; rail	594
39.93	Darling Road station.....	605
41.81	Canfield, junction with Buffalo and Goderich branch	618
48.06	Cayuga station.....	624
48.43	Grand river, high water, 590; water, 583; rail.....	619
51.13	Decewsville station.....	690
53.43	Nelles Corners station.....	717
59.00	Sandusk creek, water, 674; rail	686
61.70	Hamilton and Port Dover branch crossing, H. & P. D., rail, 681.5; Loop Line, rail.....	702
62.00	Jarvis, junction with Hamilton and Port Dover branch.....	699
65.35	Black creek, high water, 653; water, 649; rail.....	685
67.72	Renton station.....	714
71.90	Lake Erie and Northern Ry. crossing, L. E. & N. Ry., rail, 706; G. T. Ry., rail	728
72.28	Simcoe station	723
72.48	Lynn river, water, 600; bed, 597; rail	723
73.38	Simcoe junction with Stratford and Port Dover branch.....	745
76.84	Nixon station	777
82.02	Delhi ".....	765
82.37	Big creek, high water, 689; low water, 683; rail	766
88.88	Courtland station.....	776
92.80	Canadian Pacific Ry., Port Burwell branch, crossing.....	773
93.33	Tillsonburg station.....	760
93.79	Otter creek, high water, 664; water, 655; rail.....	762
95.09	Tillsonburg junction, with Tillsonburg branch.....	798
95.47	Summit, ground 200 ft. west, 823; rail.....	813
99.39	Corinth station.....	772
107.48	Aylmer ".....	765
112.13	Catfish creek, water (March 18, 1907), 690; rail.....	753

Miles from Fort Erie	GRAND TRUNK RAILWAY—LOOP LINE	Elevation above mean sea level
112.59	New Sarum station.....	764
114.18	Michigan Central R. R., main line, crossing.....	769
116.74	Canadian Pacific Ry., Ingersoll branch, crossing.....	783
118.02	St. Thomas station.....	755
118.03	Perc Marquette R. R., London and Port Stanley Ry., crossing.....	755
118.50	Kettle creek, water, 676; bed, 666; rail.....	746
122.68	Payne station.....	747
122.95	Dodds creek, bed, 720; rail.....	744
123.48	Michigan Central R. R., St. Clair division, crossing.....	745
126.62	Baird station.....	753
130.27	Lawrence ".....	740
132.05	Brook, bed, 672; rail.....	713
132.56	Thames River station.....	717
133.41	Thames river, highest flood, 661; water, 644; bed, 629; rail.....	699
134.49	Middlemiss station.....	709
136.90	Gentlemen creek, high water, 647; water, 642; bed, 641; rail.....	707
140.26	Ekfrid station.....	709
142.79	Brook, high water, 704; bed, 700; rail.....	712
145.71	Glencoe, junction with main line, Niagara Falls and Windsor, 150.18 miles from Suspension Bridge.....	729.6
Miles from Simcoe	GRAND TRUNK RAILWAY—PORT ROWAN BRANCH	
0.0	Simcoe, junction with Stratford and Port Dover branch.....	713
0.5	Port Rowan Branch switch.....	717
5.2	Young creek, water (April 30, 1906), 650; rail.....	683
5.5	Vittoria station.....	682
8.5	Summit, ground, 758; rail.....	744
9.2	Walsh station.....	742
11.3	Forestville station.....	714
13.8	St. Williams ".....	685
17.3	Port Rowan station.....	627
	" " wharf.....	578
	Lake Erie, mean level (1871-1900).....	572.3
Miles from Glencoe	GRAND TRUNK RAILWAY—KINGSCOURT BRANCH	
0.00	Glencoe, junction with main line, Niagara Falls and Windsor and "Loop Line".....	729.6
2.50	Canadian Pacific Ry., Ontario and Quebec line, crossing.....	720
6.10	Ferguson crossing.....	699
7.13	Bear creek, high water, 640; water, 635; bed, 632; rail.....	692
10.59	Michigan Central R.R., St. Clair Div., crossing, M. C. R.R., rail, 711; G. T. Ry., rail.....	734
10.85	Alvinston station.....	731
18.00	Souterville station.....	726
21.01	Kingscourt, junction with Sarnia branch, 27.58 miles from Komoka.....	709
Miles from Komoka	GRAND TRUNK RAILWAY—SARNIA BRANCH	
0.00	Komoka, junction with main line, Niagara Falls and Windsor, 133.6 miles from Suspension Bridge.....	809.4
2.38	Canadian Pacific Ry., Ontario and Quebec line, crossing, 126.4 miles from Toronto.....	795
10.10	Strathroy station.....	744
10.69	Sydenham river, water, 729; bed, 721; rail.....	739
16.32	Kerwood station.....	768

Miles from
Komoka

GRAND TRUNK RAILWAY—SARNIA BRANCH

Elevation
above mean
sea level

20.00	Summit, ground, 816; rail.....	813
22.41	Brown creek, water, 761; bed, 757; rail.....	792
23.33	Watford station.....	783
27.58	Kingscourt, junction with Kingscourt branch.....	709
29.90	Bear creek, water, 660; bed, 657; rail.....	682
30.50	Brook, water, 679; bed, 676; rail.....	692
31.64	Wanstead station.....	699
35.35	Wyoming ".....	709
36.39	Petrolia junction, with Petrolia branch.....	716
41.23	Mandaumin station.....	645
44.92	Perch creek, water, 606; bed, 599; rail.....	620
48.97	Sarnia, Tunnel station.....	612

Miles from
Petrolia Junc.

GRAND TRUNK RAILWAY—PETROLIA BRANCH

0.00	Petrolia junction, with Sarnia branch.....	716
3.03	Twelfth Line station.....	676
4.68	Petrolia station.....	667

Miles from
Harrisburg

GRAND TRUNK RAILWAY—SOUTHAMPTON BRANCH

0.00	Harrisburg, junction with old main line, Niagara Falls and Windsor, 62.7 miles from Suspension Bridge.....	734
6.18	Branchton station.....	895
11.83	Galt, W. G. & B. station.....	875
12.00	Canadian Pacific Ry., Ontario and Quebec, line, crossing, C. P. Ry., rail, 947; G.T. Ry., rail.....	924
15.89	Preston station.....	925
16.00	Paris and Brantford Electric Ry. crossing.....	929
17.82	Ballast Hill cutting, ground, 964; rail.....	937
18.94	Speed river, water (March 29, 1907), 936; rail.....	948
19.26	Hespeler station.....	943
24.16	Gourock ".....	1,059
27.85	Guelph junction, with main line, Montreal and Chicago, 383.4 miles from Montreal.....	1,076
28.85	Guelph station.....	1,067
29.50	Canadian Pacific Ry., Hamilton and Goderich branch, crossing ..	1,114
30.96	Marden station.....	1,140
35.71	Hurst creek, water, 1,147; bed, 1,145; rail.....	1,172
38.08	Swan creek " 1,169; " 1,166; ".....	1,192
40.39	Elora station.....	1,292
42.03	Grand river, water (April 18, 1870), 1,250; (July 29, 1868), 1,242; bed, 1,235; rail.....	1,301
43.01	Fergus station.....	1,356
43.39	Canadian Pacific Ry., Elora branch, crossing.....	1,366
46.30	Irvine river, bed, 1,321; rail.....	1,364
49.10	Alma station.....	1,438
52.27	Summit, ground, 1,526; rail.....	1,524
54.66	Goldstone station.....	1,456
58.08	Conestoga creek, water, 1,309; bed, 1,308; rail.....	1,350
58.25	Drayton station.....	1,355
62.40	Moorefield ".....	1,349
63.16	Conestoga creek, bed, 1,309; rail.....	1,330
69.44	Palmerston, junction with Kincardine and Durham branches.....	1,312
75.09	Harriston, junction with Owen Sound branch.....	1,253.7
75.42	Maitland river, water, 1,244; bed, 1,240; rail.....	1,252
75.51	Canadian Pacific Ry., Teeswater branch, crossing.....	1,248.5

Miles from **GRAND TRUNK RAILWAY—SOUTHAMPTON BRANCH** Elevation
Harrisburg above mean
sea level

79.18	Fulton station.....	1,229
81.77	Clifford station.....	1,226
87.05	Otter creek, water, 1,087; rail.....	1,095
90.57	Mildmay station.....	1,028
92.00	Harrington " (closed).....	1,000
96.39	Walkerton ".....	931
97.07	Silver creek, water, 917; bed, 916; rail.....	933
101.27	Dunkeld station.....	954
103.80	Cargill ".....	874
105.13	Pinkerton ".....	859
111.46	Paisley ".....	773
111.80	Teeswater river, water, 709; bed, 706; rail.....	770
112.25	Willow creek, water, 727; bed, 725; rail.....	774
118.77	Turner station.....	744
123.46	Mill creek, water, 654; bed, 643; rail.....	691
124.36	Port Elgin station.....	673
128.38	Southampton ".....	614
	Lake Huron, mean water (1871-1899).....	581.0

Miles from
Palmerston

GRAND TRUNK RAILWAY—KINCARDINE BRANCH

0.00	Palmerston, junction with Southampton branch.....	1,312
2.88	South branch Maitland river, water, 1,266; rail.....	1,278
5.71	Gowanstown station.....	1,278.3
8.83	Listowel, junction with Stratford and Port Dover branch.....	1,261.7
11.70	Middle br., Maitland river, bed, 1,227; rail.....	1,241
14.80	Atwood station.....	1,201.6
18.85	Henfryn ".....	1,164.7
21.87	Ethel ".....	1,173.9
21.90	Middle br., Maitland river, bed, 1,135; rail.....	1,166
27.43	Brussels station.....	1,121.3
29.98	Gravel bed, ground, 1,142; rail.....	1,128
34.25	Bluevale station.....	1,074.7
34.80	Little Maitland river, high water, 1,044; low water, 1,041; rail.....	1,070
37.18	Wingham junction, with London and Wingham branch.....	1,078
38.44	Wingham station.....	1,041
38.50	Canadian Pacific Ry. crossing, C.P. Ry., rail, 1,017; G.T. Ry., rail.....	1,041
38.57	Maitland river, high water, 1,012; low water, 1,007; bed, 1,002; rail.....	1,042
43.80	Whitechurch station.....	1,046
50.05	Lucknow ".....	908
50.37	Stream, low water, 882; bed, 880; rail.....	896
56.88	Pine river, high water, 787; low water, 781; bed, 779; rail.....	800
58.20	Ripley station.....	806
59.00	Stream, high water, 768; water, 766; bed, 760; rail.....	790
60.54	Kincardine station.....	589
	Lake Huron, mean water (1871-1899).....	581.0

Miles from
Palmerston

GRAND TRUNK RAILWAY—DURHAM BRANCH

0.00	Palmerston, junction with Southampton and Kincardine branches.....	1,312
5.83	Minto station.....	1,297
7.30	Canadian Pacific Ry., Teeswater branch, crossing.....	1,286
9.30	Conestoga river, water, 1,257; rail.....	1,272
11.58	Mount Forest station.....	1,355
17.83	Holstein station.....	1,336
23.90	Varney station.....	1,105
26.48	Saugeen river, bed, 1,092; water, 1,094; rail.....	1,107
26.73	Durham station.....	1,111

Miles from Hyde Park	GRAND TRUNK RAILWAY—LONDON AND WINGHAM BRANCH	Elevation above mean sea level
0.00	Hyde Park, junction with main line, Niagara Falls and Windsor, 127.6 miles from Suspension Bridge.....	873.6
0.40	Canadian Pacific Ry. crossing, C.P.Ry., rail, 903; G.T.Ry., rail.....	877
0.88	Hyde Park crossing.....	884.7
3.53	Ettrick station.....	902.2
7.07	Ilderton ".....	933.4
11.33	Denfield ".....	896.7
14.54	Lucan crossing, main line, Montreal and Chicago, 449.8 miles from Montreal; main line, rail, 884; L. & W. Br., rail.....	863
15.05	River Ausables, bed, 841; rail.....	869
16.27	Clandeboyne station.....	882.6
22.15	Centralia ".....	867.1
26.97	Exeter ".....	871.8
27.48	River Ausables, bed, 832; rail.....	865
32.78	Hensall station.....	895.2
35.10	Kippen ".....	884.5
39.10	Brucefield ".....	886.3
45.37	Clinton junction, with Buffalo and Goderich branch.....	907.6
45.69	Clinton station.....	913
52.02	Maitland river, bed, 938; rail.....	968
52.63	Londesborough station.....	971.4
56.66	Blyth station.....	1,078.9
56.80	Canadian Pacific railway, Hamilton and Goderich branch, crossing, C.P.Ry., rail, 1,048; G.T.Ry., rail.....	1,079
58.27	Summit, ground, 1,127; rail.....	1,122
59.03	McKinnon siding.....	1,108
63.14	Belgrave station.....	1,057.4
66.15	South branch Maitland river, bed, 1,015; rail.....	1,049
67.76	North " " " " 1,009; rail.....	1,055
68.82	Wingham junction, with Kincardine branch.....	1,078

GRAND TRUNK RAILWAY—TILLSONBURG BRANCH

Miles from Harrisburg		
0.0	Harrisburg, junction with old main line, Niagara Falls and Windsor, 63.7 miles from Suspension Bridge.....	734
0.7	Fairchild creek, water, 665; bed 656; rail.....	730
3.0	Alford, junction with main line, Niagara Falls and Windsor.....	711.0
3.1	Fairchild creek, water, 657; bed 644; rail.....	704
7.7	Brantford, B. & G. station.....	705.9
8.1	Lake Erie and Northern Ry. crossing.....	666
8.2	Grand river, water (March 21, 1907), 652; rail.....	666
9.0	Brantford, B. & T. station, Colborne street.....	669
9.8	West Brantford station.....	666
13.3	Pleasant Ridge station.....	801
15.6	Mount Vernon ".....	801
18.3	Burford ".....	845
22.3	Harley ".....	837
25.2	Hatchley ".....	851
27.4	New Durham ".....	837
29.4	Norwich, B. & T. station.....	847
31.1	Norwich junction, with Stratford and Port Dover branch.....	843
32.3	Summit.....	856
33.1	Middleton Line station.....	837
33.7	Spittler creek, water (March 21, 1907), 782; rail.....	820
36.1	Springford station.....	825

Miles from Harrisburg	GRAND TRUNK RAILWAY—TILLSONBURG BRANCH	Elevation above mean sea level
39.1	Michigan Central R.R. crossing, M. C. R. R., rail, 803; G. T. Ry., rail	782
41.3	Canadian Pacific Ry., Port Burwell branch, crossing	784
41.8	Tillsonburg station	761
43.6	Tillsonburg junction, with "Loop Line," 95.09 miles from Fort Erie	798
Miles from Port Dalhousie	GRAND TRUNK RAILWAY—WELLAND BRANCH	
0.00	Port Dalhousie wharf, lake Ontario, mean level, 1871-1900	245.8
0.09	" " station	253
1.77	Welland canal, rail	322
3.08	St. Catharines, Welland Branch station	348
5.52	Merritton, junction with main line, Niagara Falls and Windsor	397.4
7.36	Thorold station	527.3
10.96	Allanburg station	593
11.93	Allanburg junction, with Allanburg branch	610
13.35	Port Robinson station	588.0
16.89	Welland river, water, 564; rail	584
17.22	Welland station	599.4
18.46	Michigan Central R. R., main line, crossing	593
20.18	Welland junction, with "Loop Line"	579.5
23.55	Humberstone station	590
24.62	Port Colborne, junction with Buffalo and Goderich branch	583
	Lake Erie, mean water (1871-1900)	572.3
Miles from Allanburg junction	GRAND TRUNK RAILWAY—ALLANBURG BRANCH	
0.00	Allanburg junction, with Welland branch	610
5.19	Stanford station	643
6.76	St. Catharines and Niagara Central Ry. crossing	623
7.94	Michigan Central R. R., Niagara division, crossing	592
8.23	Clifton, junction with main line, Niagara Falls and Windsor	582
9.04	Niagara Falls, Ont.	573
Miles from Port Dover	GRAND TRUNK RAILWAY—STRATFORD AND PORT DOVER BRANCH	
0.00	Lake Erie, mean level (1871-1900)	572.3
0.00	Port Dover station	577
4.30	Lynn Valley station	656
6.50	Lake Erie and Northern Ry. crossing	679
7.09	Port Rowan Branch switch	717
7.50	Simcoe station	713
9.30	Simcoe junction, with "Loop Line," 73.38 miles from Fort Erie	745
13.50	Ellaton station	782
16.50	Brandy Creek station	785
17.25	Big creek, water, 728; rail	769
18.42	La Salette, junction with Michigan Central R. R., main line, 102.93 miles from Buffalo	787
19.82	Hawtrey station	786
21.44	Summit, rail	848
23.48	Otterville station	798
23.79	Otter creek, water, 761; rail	798
26.43	Norwich junction, with Tillsonburg branch	843
27.40	Norwich, G. B. & L. E. station	872
28.87	Close siding	884
31.00	Burgessville station	912

Miles from Port Dover	GRAND TRUNK RAILWAY—STRATFORD AND PORT DOVER BRANCH	Elevation above mean sea level
33.21	Summit, rail.....	1,041
33.50	Currie station.....	988
40.20	Woodstock, junction with main line, Niagara Falls and Windsor; Main line crossing, 960; station.....	958.8
41.53	Canadian Pacific Ry., O. & Q. line, crossing.....	948
41.97	Thames river, water, 918; rail.....	935
46.13	Summit, rail.....	1,063
47.13	Depression, rail.....	1,009
48.66	Summit, rail.....	1,106
49.07	Hickson station.....	1,096
50.68	Summit, rail.....	1,118
54.97	Tavistock, G. B. & L. E. station.....	1,137
55.68	Tavistock junction, with Buffalo and Goderich branch, 108.87 from Black Rock.....	1,165
62.39	Stratford, junction with main line, 422.3 miles from Montreal...	1,191
74.43	Brunner station.....	1,241
77.26	Milverton station.....	1,232
78.10	Canadian Pacific Ry., Hamilton and Goderich branch, crossing, C. P. Ry., rail, 1,257; G. T. Ry., rail.....	1,223
79.74	Newton station.....	1,245
82.49	Peffer ".....	1,267
86.41	Britton ".....	1,276
91.22	Listowel, junction with Kincardine branch.....	1,261.7

Miles from Galt	GRAND TRUNK RAILWAY—GALT AND ELMIRA BRANCH	
0.00	Galt, G. & E. station.....	879
0.80	Canadian Pacific Ry., Ontario & Quebec line, crossing, C.P. Ry., rail, 935; G.T. Ry., rail.....	906
4.03	Blair station.....	909
6.03	Doon station.....	954
8.84	German Mills station.....	1,004
12.90	Berlin station.....	1,101
14.07	Berlin junction, with main line, 396.9 miles from Montreal.....	1,095
14.59	Waterloo station.....	1,057
18.72	Idelberg ".....	1,123
20.54	St. Jacob ".....	1,105
24.63	Elmira ".....	1,143

Miles from London	GRAND TRUNK RAILWAY—LONDON AND ST. MARYS BRANCH	
0.00	London, junction with main line, Niagara Falls and Windsor Div.	805.7
1.28	London East station.....	828.4
3.10	Pottersburg station.....	859
3.32	Canadian Pacific Ry., O. & Q. line, crossing.....	860
5.82	Fairfield station.....	900
8.02	Wyton ".....	909
10.78	Thorndale station.....	936
15.82	Kelly siding.....	1,084
21.20	Canadian Pacific Ry., St. Marys branch, crossing, C.P. Ry., rail, 1,015; G.T. Ry., rail.....	1,039
21.62	St. Marys station.....	1,062
22.62	St. Marys junction, with main line, Montreal and Chicago, 432.40 miles from Montreal.....	1,085

0-00	Black Rock station, N. Y.	591
0-44	Niagara river, International bridge, water (1878), 566-5; rail	591
0-86	Bridgeburg station	591-7
1-95	Fort Erie, B. & G. station	608
7-62	Windmill Point station	603
10-12	Ridgeway station	622
14-07	Sherks station	622
19-93	Port Colborne, junction with Welland branch	583
20-04	Welland canal, mean water, 572-3; rail	586
26-02	Wainfleet station	593
30-60	Lowbanks station	581
33-02	Stromness station	587
38-83	Dunnville station	587
46-79	Canfield junction, with 'Loop Line' and Michigan Central R. R.	618
47-78	Canfield station	626
51-90	Cook "	645
53-30	Seneca station	665
54-60	Summit, rail	681
59-58	Caledonia, junction with Hamilton and Port Dover branch	660
62-38	Summit, rail	684
64-46	Big creek, water, 616; rail	651
66-07	Middleport station	665
68-51	Onondaga "	666
73-18	Cainsville "	723
74-64	Summit, rail	733
76-43	Brantford, junction with main line, Niagara Falls and Windsor, and Tillsonburg branch	705-9
83-63	Paris station	828-9
83-70	Grand river, water (Aug., 1878), 731; rail	802
84-23	Paris junction, with main line, Niagara Falls and Windsor	844-3
86-98	Summit, rail	909
88-35	Nith brook, water, 834; rail	864
89-77	Richwood station	944
92-68	Drumbo station	1,011
92-92	Canadian Pacific Ry., O. & Q. division, crossing, 74-2 miles from Toronto	1,012
98-28	Bright station	1,041
107-98	Tavistock, B. & G. station	1,137
108-87	Tavistock junction, with Stratford and Port Dover branch	1,165
115-65	Stratford, junction with main line, Montreal and Chicago, 422-3 miles from Montreal	1,191
116-57	Avon river, water, 1,139; rail	1,172
120-08	Sebringville station	1,173
123-11	Summit	1,213
128-72	Mitchell station	1,122
128-87	Thames river, North branch, water, 1,086; rail	1,123
133-70	Dublin station	1,104
133-89	Carron brook, rail	1,098
140-26	Seaforth station	1,009
148-53	Clinton station	921
149-16	Clinton junction, with London and Wingham branch	907-6
152-25	Holmesville station	874-0
161-30	Goderich station	732
162-60	Canadian Pacific Ry., Hamilton and Goderich branch, crossing, C.P.Ry., 626, G.T.Ry., rail	602
163-00	Goderich wharf, mean water, lake Huron (1871-1900), 581; rail	587

GRAND TRUNK RAILWAY

171

Miles from
Harriston

GRAND TRUNK RAILWAY—OWEN SOUND BRANCH

Elevation
above mean
sea level

0.00	Harriston, junction with Southampton branch.....	1,253.7
0.31	Canadian Pacific Ry., Teeswater branch, crossing.....	1,247.6
4.87	Drew station.....	1,230.4
7.48	Alsfieldt ".....	1,168.0
9.68	Ayton ".....	1,031.6
13.64	Neustadt station.....	972.1
19.94	Hanover ".....	876.3
20.54	Canadian Pacific Ry., Walkerton branch, crossing, C.P.Ry., rail, 909; G.T.Ry., rail.....	883
26.24	Elmwood ".....	936.6
30.73	Chesley ".....	920.5
37.90	Dobbington station.....	818.8
43.50	Tara station.....	756.0
48.55	Allenford station.....	749.5
53.11	Parkhead, junction with Wiarton branch, west track, 719.5; east track.....	721.8
55.71	Shallow Lake station.....	738.1
57.30	Summit, ground, 827; rail.....	826
59.91	Murphy station.....	796
61.44	Benallen station.....	796.8
64.44	Brookholm station.....	597.0
65.51	Owen Sound station.....	585
	Lake Huron, water, mean level (1871-1900),.....	581

Miles from
Warton

GRAND TRUNK RAILWAY—WIARTON BRANCH

	Warton wharf.....	586
0.00	" station.....	597
4.73	Clavering station.....	728
6.34	Summit.....	745
7.84	Hepworth station.....	713
10.25	Parkhead, junction with Owen Sound branch, east track, 721.8; west track.....	719.5

Miles from
Moncton

NATIONAL TRANSCONTINENTAL RAILWAY

Elevation
above mean
sea level

0.0	Moncton, junction with Intercolonial railway.....	50.0
5.9	Lutesville station.....	213.0
14.4	Segawa station.....	277
21.5	Canaan river, high water, 162; low water, 156; bed, 154; rail.....	240
23.3	North Branch station.....	259.1
33.5	Alward station.....	340.4
39.0	Summit between Canaan and Salmon rivers.....	351
39.9	Pangburn station.....	342.8
49.8	Bronson station.....	188.9
56.6	Chipman station.....	71.0
56.7	Salmon river, high water, 18; low water, 1; rail.....	68
66.5	Cantor station.....	333.2
67.1	Newcastle viaduct, rail.....	334
73.4	Sunbury station.....	497.7
79.1	Summit between Salmon and Miramichi rivers.....	540
80.5	Bantalor station.....	459.9
81.6	Cain river, high water, 413; low water, 407; rail.....	441
88.3	North Cain station.....	534.9
96.3	McGivney, junction with Intercolonial R., Fredericton branch..	571.7
108.4	Maple Grove station.....	821.7
117.0	Summit between Miramichi and Nashwaak rivers.....	899
117.4	Napadogan lake, high water, 895; low water.....	890
117.4	Napadogan station.....	899.2
124.5	South branch Miramichi river, high water, 785; low water, 778; bed, 776; rail.....	797
125.4	Riverdale station.....	796.5
132.8	North branch Miramichi river, high water, 822; low water, 817; bed, 812; rail.....	832
133.3	Juniper station.....	837.2
133.9	Juniper brook, rail.....	843
145.9	Summit station (summit between Miramichi and Tobique rivers) ..	1,194
149.2	Odell stream, high water, 1,053; low water, 1,048; rail.....	1,057
153.0	Baker lake, high water, 659; low water.....	657
159.2	Longley station.....	528.8
162.4	Canadian Pacific railway, Tobique branch, crossing, C.P.Ry., rail, 384; N.T. Ry., rail.....	460
163.4	Wapske station.....	453
164.8	Tobique river, high water, 376; low water, 364; bed, 358; rail.....	461
165.4	Plaster Rock station.....	466.6
177.0	Blue Bell station (summit between Tobique and St. John rivers) ..	738
177.1	Dead Brook lake, high water, 732; low water.....	730
180.3	Graham Brook viaduct, rail.....	690
181.4	Caton brook, rail.....	669
181.5	Peterson station.....	660
183.9	Little Salmon river, rail.....	627
186.8	Drummond station.....	630
191.5	Little river, rail.....	614
193.7	Grand Falls station.....	574.9
197.1	Four-mile brook, high water, 449; low water, 448; rail.....	523
200.3	Bellefleur station.....	479
202.4	Canadian Pacific railway, Edmundston branch, crossing.....	460
205.3	St. Leonard station.....	464
207.1	Grand river, high water, 437; low water, 425; bed, 421; rail.....	444
209.6	Sigas river, high water, 437; low water, 422; rail.....	454
209.7	Sigas station.....	454
213.5	Quisibis river, high water, 443; low water, 420; bed, 416; rail.....	450

Miles from
Moncton

NATIONAL TRANSCONTINENTAL RAILWAY

Elevation
above mean
sea level

214.3	Quisibis station.....	455
219.6	Green river, high water, 455; low water, 431; bed, 428; rail.....	460
221.0	Green River station.....	474
225.5	St. Basil station.....	470
226.4	Iroquois river, high water, 458; low water, 437; bed, 433; rail.....	464
229.9	Madawaska river, high water, 465; low water, 440; bed, 435; rail.....	473
230.6	Edmundston station.....	472
237.6	St. Hilaire station.....	493.2
242.5	Temiscouata Ry. crossing.....	524
242.9	Baker Brook station.....	516.4
243.3	Baker brook, rail.....	515
246.5	Caron Brook station.....	603
252.0	Lake Baker station.....	676
258.1	Kitchen brook, high water, 672; low water, 668; bed, 666; rail.....	681.5
259.4	Courchesne station.....	736
260.4	Summit.....	736
264.8	Long lake, high water, 654; low water, 649; bed, 644; rail.....	670
266.4	Glendyne station.....	672
271.9	Summit.....	712
274.9	Tarte station.....	681
275.9	Blue river, high water, 600; low water, 592; bed, 587; rail.....	650
282.8	Nigger brook, high water, 696; low water, 692; bed, 690; rail.....	709
286.1	Estcourt station.....	709
286.3	Lake Pohenegamook, high water, 685; low water, 677; rail.....	710
286.5	St. Francis river, high water, 685; low water, 677; bed, 672; rail.....	713
293.1	Rivière Boucanée, high water, 952; low water, 947; rail.....	1,074
297.2	Summit.....	1,284
298.9	Pelletier station.....	1,259.0
300.5	Rivière Rocheuse, high water, 1,223; low water, 1,220; bed, 1,218; rail.....	1,236
305.4	Rivière Fourchue, high water, 1,183; low water, 1,180; bed, 1,178; rail.....	1,202
305.9	Picard station.....	1,207
312.4	Lapointe station.....	1,140
317.9	Lippée station.....	1,106
322.4	Lac aux Loutres, high water, 1,133; low water.....	1,126
326.4	Hawkins station.....	1,093
333.4	Holliday station.....	1,111
341.9	Le Febvre station.....	1,202
351.9	Deniau station.....	1,092
355.4	Monk station.....	1,162
362.7	Terrien river, high water, 1,241; low water, 1,236; rail.....	1,252
364.0	Lake Terrien, high water, 1,259; low water, 1,254; rail.....	1,263
364.4	Cardaillac station.....	1,265
369.7	Bras d'Apic river (east), high water, 1,182; low water, 1,179; bed, 1,177; rail.....	1,208
370.4	Bras-d'Apic station.....	1,215
370.8	Bras d'Apic river (west), high water, 1,204; low water, 1,199; bed, 1,198; rail.....	1,223
375.4	Duguesclin station.....	1,232
375.7	Méchant-pouce river, high water, 1,189; low water, 1,185; bed, 1,183; rail.....	1,226
376.2	Fortin creek, high water, 1,206; low water, 1,203; bed, 1,202; rail.....	1,230
380.4	Langelier station.....	1,316
381.8	St. Nicholas river, water, 1,296; rail.....	1,305
382.9	Summit.....	1,310
386.4	Rosaire station.....	1,214
392.4	Mercier station.....	1,114

Miles from Moncton	NATIONAL TRANSCONTINENTAL RAILWAY	Elevation above mean sea level
396.4	Rivière Fourche-du-Pin, high water, 989; low water, 984; rail....	1,046
399.7	Bras Nord-ouest Rivière du Sud, high water, 917; low water, 906; bed, 903; rail.....	995
400.4	Armagh station.....	996
405.5	Summit.....	1,002
412.4	St. Damien station.....	934
415.8	Abenakis river, high water, 830; low water, 824; bed, 820; rail..	870
417.4	Abenakis station.....	836
419.0	Etchemin river, high water, 722; low water, 708; bed, 704; rail...	766
420.6	St. Malachie station.....	768
422.6	Bourbonnais station.....	744
428.2	Ste. Claire station.....	681
434.9	St. Anselme station.....	565
435.5	Quebec Central Ry. crossing, Q. C. Ry., rail, 551; N. T. Ry., rail..	577
440.7	St. Isidore station.....	445
446.6	Rivière le Bras, high water, 327; low water, 314; bed, 310; rail...	339
446.9	Beaudet station.....	339
447.2	Rivière Petit Bras, high water, 319; low water, 316; bed, 313; rail	338
455.4	Lévis junction.....	219
456.2	Intercolonial railway, Chaudière branch, crossing.....	207
458.3	Intercolonial railway, main line, crossing, I. C. Ry., rail, 193; N. T. Ry., rail.....	165
459.7	St. Lawrence river, Quebec bridge, extreme high tide, 18.0; ex- treme low tide, -4.9; rail, over north abutment, 169.4; south abutment, 170.7; centre.....	181.7
460.9	Bridge, junction with Quebec branch.....	165
467.4	Quebec station.....	19.2
462.9	Cap Rouge river, high water, 102; low water, 83; rail.....	257
469.4	St. Augustin station.....	216
475.4	Neuville station.....	238
478.2	Rivière aux Pommes, high water, 229; low water, 226; bed, 224; rail	261
480.1	Fairchild station.....	264
482.4	Jacques Cartier river, high water, 131; low water, 123; rail.....	277
486.8	Canadian Pacific Ry., Quebec branch, crossing.....	194
488.4	St. Basile station.....	205
493.4	Portneuf station.....	240
499.3	Rivière Grand Bras, high water, 122; low water, 111; bed, 110; rail	147
500.3	Lachevrotière river, high water, 131; low water, 128; bed, 127; rail	143
501.4	St. Marc station.....	144
503.0	Ste. Anne river, high water, 103; low water, 92; bed, 87; rail....	125
505.4	Rivière Noire, high water, 106; low water, 101; bed, 86; rail....	128
505.4	St. Casimir station.....	126
506.4	Nigarette river, high water, 124; low water, 116; bed, 115; rail..	133
515.4	St. Prospère station.....	361
519.2	Charest river, high water, 206; low water, 202; bed, 200; rail....	263
524.4	St. Adelphe station.....	410
533.4	Hervey, junction with Canadian Northern Ry., Laurentian branch	583
545.4	Gouin station.....	768
552.4	Doheny station.....	797
555.6	Riv. Eaux Mortes, high water, 692; low water, 684; rail.....	748
557.1	Rivière Milieu, high water, 552; low water, 542; rail.....	713
559.0	Rivière Brochet, high water, 667; low water, 663; bed, 661; rail	686
559.4	Lac Chat station.....	684
561.0	Rivière Brochet, bed, 707; rail.....	713
566.4	Bousquet station.....	754
568.9	Rivière Brochet, bed, 764; rail.....	776
569.4	Rivière Brochet, bed, 775; rail.....	786

Miles from
Moncton

NATIONAL TRANSCONTINENTAL RAILWAY

Elevation
above mean
sea level

574.4	Morency station.....	713
575.1	Lac Beauce river, bed, 671; rail.....	697
578.6	Canadian Northern (Quebec and Lake St. John Ry., La Tuque branch) crossing, C.N.Ry., rail, 613; N.T.Ry., rail.....	640
579.9	Bostonnais river, high water, 574; low water, 570; bed, 567; rail.....	617
583.1	La Tuque station.....	551
585.1	Bostonnais river, high water, 503; low water, 484; bed, 480; rail.....	522
586.4	Fitzpatrick station.....	507
588.5	Rivière Croche, high water, 504; low water, 485; bed, 479; rail.....	516
589.2	St. Maurice river, high water, 505; low water, 486; bed, 474; rail.....	530
589.3	Rivière au Lait, high water, 506; low water, 487; bed, 485; rail.....	529
601.4	Cressman station.....	728
604.7	Vernilion river, high water, 747; low water, 743; rail.....	819
614.9	Darey station.....	1,033
616.4	Shea lake, high water, 1,023; low water.....	1,021
616.9	Summit.....	1,052
621.4	Crespel station.....	972
626.4	Rivière Flamand, high water, 880; low water, 866; bed, 862; rail.....	901
628.9	Joybert station.....	909
635.6	Rivière Petit Flamand, high water, 975; low water, 963; bed, 961; rail.....	999
635.8	Ferguson station.....	999
644.4	Vandry station.....	1,030
648.4	St. Maurice river, high water, 1,049; low water, 1,038; bed, 1,025; rail.....	1,073
654.6	Weymont station.....	1,154
655.8	St. Maurice river, high water, 1,133; low water, 1,133; bed, 1,126; rail.....	1,168
657.7	Manuan river, high water, 1,148; low water, 1,138; bed, 1,130; rail.....	1,171
658.3	Ribbon river, high water, 1,148; low water, 1,138; bed, 1,133; rail.....	1,171
661.3	Cann station.....	1,187
662.3	Atikamik viaduct, high water, 1,155; low water, 1,150; bed, 1,148; rail.....	1,213
664.1	Clear lake, high water, 1,224; low water.....	1,223
671.3	Hibbard station (summit).....	1,464
671.3	Wolf lake, high water, 1,452; low water.....	1,451
672.6	Miskwa lake, high water, 1,415; low water.....	1,414
679.2	Minachin creek, high water, 1,368; low water, 1,362; bed, 1,359; rail.....	1,378
679.4	Beaver lake, high water, 1,365; low water.....	1,363
679.8	Casey station.....	1,376
680.8	Ribbon river, high water, 1,368; low water, 1,363; rail.....	1,385
683.4	Picqui creek, high water, 1,370; low water, 1,366; bed, 1,361; rail.....	1,384
686.7	Lac Travers, narrows, high water, 1,398; low water, 1,395; rail.....	1,407
688.7	Upper Ribbon river, high water, 1,400; low water, 1,395; bed, 1,394; rail.....	1,415
689.5	Lake Kamitsgamak, high water (1910), 1,417; low water.....	1,412
691.3	McCarthy station.....	1,434
695.2	Boucher lake, water (May, 1910), 1,401; water (Sept., 1910).....	1,400
695.5	Boucher creek, high water, 1,404; low water (Sept., 1910), 1,399; rail.....	1,413
699.9	Summit.....	1,468
700.2	Lac la Mouche, high water.....	1,462
700.5	Wykes station.....	1,467
705.8	Parent station.....	1,401
710.8	Marten river, high water, 1,319; rail.....	1,372
712.8	Main lake, high water (May, 1911).....	1,385

Miles from
Moncton

NATIONAL TRANSCONTINENTAL RAILWAY

Elevation
above mean
sea level

714.8	Timbrell station.....	1,410
723.8	Strachan station.....	1,454
725.0	Sargent lake, high water (Aug., 1911).....	1,439
726.8	Dogs-home lake, high water, 1,444; low water.....	1,440
729.3	Greening station.....	1,424
732.8	Packer creek, high water, 1,376; low water.....	1,372
733.8	Ogee lake, high water, 1,386; low water.....	1,384
735.1	Barnett lake, high water, 1,368; low water.....	1,366
735.8	Packer lake, high water, 1,369; low water.....	1,364
736.8	East Cache creek, high water, 1,337; low water, 1,332; rail.....	1,359
738.3	Clova station.....	1,347
739.5	Oscalawa lake, high water, 1,335; low water, 1,330; bed, 1,320; rail.....	1,357
742.1	Haycock lake, water.....	1,349
744.5	Haycock creek, high water, 1,352; low water, 1,340; rail.....	1,376
747.3	Bourassa station.....	1,389
747.3	Duchamp lake, high water, 1,376; low water.....	1,374
748.8	Lake, high water, 1,391; low water.....	1,388
749.8	Lake, high water, 1,391; low water.....	1,390
750.8	Lake, high water, 1,418; low water.....	1,415
751.0	Lake, high water, 1,407; low water.....	1,405
751.4	Spruce creek, high water, 1,410; low water.....	1,408
753.6	Coquar station.....	1,478
755.1	Summit.....	1,486
755.4	Lake, high water, 1,479; low water.....	1,478
756.1	Hecla lake, high water, 1,445; low water.....	1,442
759.1	Summit, height-of-land between St. Lawrence and Hudson bay ..	1,493
759.2	Lake, high water, 1,482; low water.....	1,480
760.3	Windfall lake, high water.....	1,469
761.9	Octavie creek, high water, 1,410; low water, 1,407; rail.....	1,457
762.3	Monet station.....	1,454
763.6	Kidney lake, high water.....	1,447
763.9	Lake, high water, 1,420; low water.....	1,418
764.3	Susie river, high water, 1,402; low water, 1,398; bed, 1,395; rail...	1,431
766.8	Hudson Bay creek, high water, 1,376; low water, 1,372; bed, 1,369; rail.....	1,401
768.2	Lake, high water, 1,402; low water.....	1,401
769.5	Beaver lake, high water, 1,439; low water.....	1,436
770.8	Lumbago lake, high water, 1,441; low water.....	1,439
771.3	Tarrien station.....	1,448
771.9	Moose lake, high water, 1,434; low water.....	1,433
772.7	Hamilton lake, high water, 1,418; low water.....	1,416
774.6	Dead Fox creek, high water, 1,394; low water, 1,392; rail.....	1,402
774.7	Dead Fox lake, high water, 1,394; low water.....	1,392
775.1	Mud-hole lake, high water, 1,382; low water.....	1,381
776.2	Kekek river, high water, 1,367; low water, 1,361; bed, 1,355; rail...	1,377
778.8	Langlade station.....	1,421
782.1	Grennon lake, high water, 1,422; low water.....	1,421
782.3	Summit.....	1,437
783.7	Mamaguish river, high water, 1,353; low water, 1,351; rail.....	1,410
786.3	Deadman creek, high water, 1,333; low water, 1,350; rail.....	1,364
787.8	Dix station.....	1,383
791.2	Durant lake, high water, 1,327; low water.....	1,324
795.2	Atik creek, high water, 1,296; low water, 1,293; bed, 1,290; rail...	1,315
795.8	Bolger station.....	1,314
798.8	Buckle lake, high water, 1,278; low water.....	1,275
800.5	Mark lake, high water, 1,277; low water.....	1,272

Miles from
Moncton

NATIONAL TRANSCONTINENTAL RAILWAY

Elevation
above mean
sea level

800.5	Atik creek, high water, 1,277; low water, 1,272; bed, 1,267; rail...	1,293
801.8	Forsythe station.....	1,299
802.3	Lake, water.....	1,232
803.4	Atik creek, high water, 1,250; low water, 1,243; bed, 1,238; rail....	1,274
808.3	Evere lake, high water, 1,205; low water.....	1,202
808.8	Doucet station.....	1,219
812.6	Cañon creek, high water, 1,136; low water, 1,124; bed, 1,120; rail...	1,208
815.0	Jocko creek, high water, 1,133; low water, 1,126; bed, 1,123; rail...	1,180
815.8	Summit.....	1,205
816.3	Press station.....	1,202
820.8	Migiskan river, high water, 1,101; low water, 1,089; bed, 1,075; rail.....	1,140
821.8	Signal station.....	1,172
828.8	Forget station.....	1,138
835.8	Migiskan station.....	1,102
836.7	Migiskan river, high water, 1,069; bed, 1,060; rail.....	1,102
841.6	Adelphus creek, high water, 1,001; low water, 995; bed, 994; rail...	1,046
843.8	Bell river, high water, 1,000; low water, 990; bed, 979; rail.....	1,026
843.8	Shabogama lake, high water, 1,000; low water.....	990
844.3	Nottaway station.....	1,030
848.1	Poplar river, high water, 1,001; low water, 995; bed, 990; rail...	1,007
849.8	Coffee river, high water, 1,008; low water, 1,003; bed, 1,001; rail...	1,025
849.9	Tooker lake, high water, 1,008; low water.....	1,003
849.9	Armstrong lake, high water, 1,008; low water.....	1,003
855.9	Cedar creek, high water, 1,035; low water, 1,029; bed, 1,025; rail...	1,057
857.1	Uniacke station.....	1,062
862.7	Natagan river, high water, 1,000; low water, 991; bed, 895; rail....	1,029
865.7	Natagan station.....	1,078
871.6	Fisher station.....	1,124
872.7	Summit.....	1,128
878.9	Peter Brown creek, high water, 1,005; low water, 996; bed, 991; rail...	1,024
880.3	Larry station.....	1,051
887.1	Harricanaw station.....	1,002
887.7	Harricanaw river, high water, 972; low water, 966; bed, 942; rail...	1,000
891.8	Spirit Lake station.....	1,051
893.3	Spirit lake, high water, 1,042; water, 1,036; rail.....	1,044
894.3	Summit.....	1,072
896.8	Molesworth lake, high water, 1,005; low water.....	1,002
900.3	Cook station.....	1,048
904.8	Nawapitichen river, high water, 975; low water, 968; bed, 967; rail...	1,012
907.3	Summit.....	1,076
907.8	Kino station.....	1,073
912.9	Deer river, high water, 1,006; low water, 1,002; rail.....	1,016
914.9	Robertson lake, high water, 1,005; water, 1,001; rail.....	1,014
915.8	O'Brien station.....	1,020
918.4	Midway creek, high water, 1,019; low water, 1,016; rail.....	1,036
919.9	Suderland creek, high water, 1,047; low water, 1,045; rail.....	1,060
920.5	Summit.....	1,062
922.5	Kakameonan river, high water, 994; low water, 990; bed, 980; rail...	1,021
924.5	Authier station.....	1,007
931.3	Molesworth river, high water, 920; low water, 917; rail.....	936
931.3	Makamik lake, high water, 920; low water.....	917
934.3	Makamik station.....	951
935.5	Bickerdike creek, high water, 927; low water, 923; rail.....	944
936.7	South river, high water, 906; low water, 901; rail.....	924
939.9	South river, high water, 880; low water, 876; rail.....	914
940.8	South river, high water, 875; low water, 870; rail.....	899

Miles from
Moncton

NATIONAL TRANSCONTINENTAL RAILWAY

Elevation
above mean
sea level

942.3	Wabikin station	883
942.9	Whitefish river, high water, 872; low water, 867; rail	885
944.2	Moberly creek, high water, 884; low water, 883; rail	891
949.1	Lule station	945
956.3	Okiko station	910
956.7	Interprovincial boundary, between Quebec and Ontario	910
957.2	Okikadasik river, high water, 873; low water, 871; rail	905
961.1	Summit	989
964.7	Goodwin station	944
968.6	Balkam station	938
976.6	Mack station	883
986.4	Low-bush station	889
988.1	Circle river, high water, 874; low water, 868; rail	886
991.6	Kirke station	942
999.0	Bungle station	971
1.008.6	Hughes station (summit)	989
1.013.4	Norembega station	983
1.020.1	Abitibi river, high water, 776; low water, 764; rail	857
1.021.8	Abitibi station	895
1.028.1	Cochrane , junction with Timiskaming and Northern Ontario Ry.	911
1.034.4	Frederick House river, high water, 790; low water, 786; rail	864
1.034.6	Frederick station	861
1.036.6	Buskegon station	883
1.038.6	Buskegon river, high water, 839; low water, 830; rail	881
1.041.1	Summit	926
1.045.5	Driftwood station	898
1.048.4	Driftwood river, high water, 819; low water, 813; rail	849
1.054.6	Pullen station	860
1.059.8	Mattagami river, high water, 741; low water, 730; rail	771
1.060.1	Jacksonboro station	769
1.061.7	Tudhope station	792
1.066.6	Poplar Rapids river, high water, 741; low water, 731; rail	767
1.070.1	Strickland station	797
1.074.5	Wellington creek, high water, 745; low water, 739; rail	758
1.077.8	Fauquier station	746
1.078.5	Ground-hog river, high water, 714; low water, 699; rail	742
1.080.7	Brûlé creek, high water, 733; low water, 728; rail	748
1.083.0	Marten creek, high water, 762; low water, 757; rail	780
1.084.3	Moonbeam station	794
1.091.8	Kitigan station	780
1.093.7	Bass river, high water, 738; low water, 734; rail	752
1.098.2	Kapuskasing river, high water, 695; low water, 687; rail	714
1.098.5	MacPherson station	714
1.104.0	Secord station	764
1.106.6	Lost river, high water, 716; rail	735
1.110.9	Harty station	779
1.112.9	Solomon creek, high water, 749; rail	764
1.118.5	Opasatika river, high water, 727; water, 719; rail	739
1.119.3	Opasatika station	744
1.123.4	Montcalm creek, rail	781
1.126.7	Summit	836
1.126.9	Lowther station	823
1.134.0	Crow creek, high water, 790; low water, 784; rail	798
1.134.4	Hamilton creek, high water, 763; low water, 760; rail	771
1.134.4	Macbey station	769
1.134.5	Rainbow creek, high water, 760; low water, 755; rail	769

Miles from
Moncton

NATIONAL TRANSCONTINENTAL RAILWAY

Elevation
above mean
sea level

1,136.5	Two-mile creek, high water, 754; low water, 753; rail	764
1,137.5	Five-mile creek, high water, 720; low water, 716; rail	752
1,138.5	Mattice station	750
1,138.8	Missinaibi river, high water, 717; low water, 703; rail	751
1,140.2	Armstrong creek, high water, 736; low water, 734; rail	762
1,141.4	Emra station	778
1,143.1	Evelyn creek, high water, 777; low water, 774; rail	786
1,144.8	Rye creek, high water, 796; low water, 792; rail	812
1,148.2	Omo station	815
1,154.5	Mellwarth creek, high water, 770; low water, 766; rail	784
1,155.0	Nelles creek, high water, 770; low water, 768; rail	786
1,156.3	Mattawishkwia river, high water, 767; low water, 763; rail	786
1,157.8	Hearst, junction with Algoma Central and Hudson Bay railway	807
1,163.5	Summit	844
1,163.6	Ryland station	836
1,170.1	Holland station	815
1,172.0	Valentine creek, high water, 776; low water, 772; rail	805
1,175.0	Okova station	793
1,178.2	Kabinakagami river, high water, 784; low water, 774; rail	818
1,179.7	Pike creek, high water, 783; low water, 782; rail	795
1,180.0	Kabina station	797
1,180.7	Patterson creek, bed, 785; rail	795
1,180.9	St. Joseph river, high water, 786; low water, 784; rail	794
1,182.6	Leonard lake, water, 808; rail	828
1,183.2	Summit	846
1,186.2	Wapiti station	788
1,188.7	Grady creek, high water, 752; rail	757
1,190.4	Quinn creek, high water, 741; rail	754
1,192.7	Bertram station	746
1,193.4	Diamond lake, high water, 744; low water	740
1,196.2	White river, high water, 683; low water, 679; rail	718
1,196.8	Skunk river, high water, 637; low water, 634; rail	715
1,197.9	Nagagami river, high water, 658; low water, 653; rail	723
1,198.4	Lake, high water	704
1,200.4	Ames station	772
1,201.1	Summit	773
1,206.8	Pitopiko river, high water, 708; low water, 703; rail	748
1,207.7	Nagagami station	749
1,214.1	Otasawian river, high water, 658; low water, 651; rail	689
1,214.9	Fraser station	689
1,220.9	Martin creek, high water, 670; low water, 667; rail	677
1,221.4	Savoff station	679
1,228.1	Teltaka station	625
1,228.6	Clarke creek, high water, 608; low water, 606; rail	622
1,233.6	Pagwachuan river, high water, 506; low water, 498; rail	566
1,235.9	Pagwa station	617
1,242.0	Wilgar station	681
1,242.6	Dog river, high water, 665; low water, 664; rail	682
1,249.1	Moose river, high water, 693; low water, 689; rail	711
1,250.5	Flint station	719
1,251.3	Flint river, high water, 704; low water, 701; rail	719
1,256.2	Ogaming station	799
1,258.8	Summit	820
1,259.4	Kenogami river, high water, 756; low water, 754; rail	814
1,261.8	Ogahalla station	852
1,267	Watini station	893
1,273.6	Jobrin station	972

Miles from
Moncton

NATIONAL TRANSCONTINENTAL RAILWAY

Elevation
above mean
sea level

1,274.8	Rabbit river, high water, 931; low water, 930; rail.	953
1,280.2	Mungall river, high water, 971; low water, 970; rail.	979
1,282.2	Mud lake, mean water.	987
1,283.2	Grant station.	997
1,285.8	Beaver creek, high water, 976; low water, 974; rail.	992
1,289.2	Summit.	1,077
1,290.9	Braggan creek, high water, 1,017; low water, 1,016; rail.	1,046
1,291.0	Opemisha station.	1,049
1,295.1	Twin river, high water, 978; low water, 977; rail.	994
1,295.3	Twin lakes, mean water.	977
1,298.1	East McDonald creek, high water, 1,005; low water, 1,004; rail.	1,013
1,298.5	Nakina station.	1,021
1,299.5	West McDonald creek, high water, 1,017; low water, 1,016; rail.	1,037
1,304.3	Balkam lake, mean water.	1,007
1,305.4	Exton station.	1,036
1,307.8	McKay lake, mean water.	1,040
1,311.7	Summit.	1,085
1,313.7	Kawaskagama lake, mean water.	1,060
1,316.4	Titania station.	1,078
1,317.7	Kawaskagama river, high water, 1,052; low water, 1,049; rail.	1,066
1,318.7	Trout creek, high water, 1,053; low water, 1,051; rail.	1,062
1,323.7	Johnson creek, high water, 1,032; low water, 1,028; rail.	1,041
1,324.9	Kowkash station.	1,050
1,331.4	Paska station.	1,043
1,332.4	Red Paint lake, water, 1,041; high water, 1,043; rail.	1,045
1,334.8	Wilgar creek east, high water, 1,038; low water, 1,036; rail.	1,053
1,338.9	Wilgar creek west, high water, 1,093; low water, 1,092; rail.	1,201
1,340.2	Kapita station.	1,123
1,340.9	Summit, height-of-land between St. Lawrence and Hudson bay.	1,123
1,341.5	Gzowski lake, water.	1,080
1,342.1	Gzowski creek, high water, 1,079; rail.	1,103
1,346.1	Emilie creek, high water, 1,051; low water, 1,047; rail.	1,064
1,346.4	Tashota station.	1,065
1,348.3	Robinson creek, high water, 1,033; low water, 1,031; rail.	1,040
1,349.6	Spruce creek, high water, 1,038; low water, 1,033; rail.	1,051
1,350.1	Robinson lake, mean water.	1,031
1,351.1	Spruce lake, mean water.	1,034
1,352.0	Penoquani station.	1,053
1,353.8	Doc lake, mean water.	1,028
1,357.3	Ombabika river, high water, 1,019; low water, 1,017; rail.	1,033
1,357.7	Ombabika station.	1,035
1,359.0	Sapasoose lake, mean water.	1,035
1,360.8	Mink lake, mean water, 1,046; rail.	1,065
1,363.1	Grass lake, mean water.	1,013
1,363.1	Grass creek, high water, 1,011; low water, 1,010; rail.	1,055
1,365.0	Minataree station (summit).	1,093
1,367.1	Mountain lake, mean water.	1,050
1,367.9	Mountain creek, high water, 1,024; low water, 1,023; rail.	1,052
1,371.5	Camp creek, high water, 956; low water, 951; rail.	1,014
1,371.3	Weatherbe station.	1,010
1,374.4	Marten creek, high water, 977; low water, 975; rail.	1,009
1,375.5	Roaring creek, high water, 972; low water, 969; rail.	1,009
1,380.2	Jackfish river, high water, 867; low water, 860; rail.	953
1,383.2	Seymour creek, high water, 910; low water, 906; rail.	953
1,383.2	Ferland station.	969
1,384.7	Summit.	975
1,388.9	Pikitigushi river, high water, 863; low water, 854; rail.	905

Miles from
Moncton

NATIONAL TRANSCONTINENTAL RAILWAY

Elevation
above mean
sea level

1,389.6	Willet station	921
1,393.6	Lake Nipigon, high water, 852; low water	850
1,395.6	Green station	975
1,398.3	Rapid creek, high water, 963; low water, 960; rail	971
1,403.2	Wagaming station	1,028
1,405.0	Jojo lake, high water, 1,001; low water	998
1,405.3	White-sand river, high water, 1,001; low water, 998; rail	1,021
1,409.2	Lake of the Flats, water	1,098
1,410.8	Red Granite creek, high water, 1,094; low water, 1,093; rail	1,102
1,411.2	Red Granite lake, high water, 1,097; low water	1,092
1,413.2	Armstrong station	1,121
1,413.3	Armstrong creek, high water, 1,102; low water, 1,101; rail	1,129
1,420.9	Onaping station	1,252
1,424.8	Bear lake, water	1,201
1,425.3	Burnt creek, high water, 1,191; low water, 1,189; rail	1,244
1,425.6	Tunnel lake	1,200
1,427.2	Pascopee station	1,259
1,427.8	Summit, height-of-land between St. Lawrence and Hudson bay	1,262
1,431.0	Cañon lake, water	1,193
1,434.4	Collins station	1,256
1,441.7	Ogoki station	1,283
1,443.6	Lookout river, high water, 1,283; low water, 1,282; rail	1,289
1,452.2	Jacobs station	1,337
1,459.4	Kawa station	1,359
1,465.5	Cameo station	1,375
1,468.0	Allan river, high water, 1,343; low water, 1,340; rail	1,353
1,469.1	Allanwater station	1,351
1,478.8	Harvey station	1,369
1,482.9	Staunton station	1,389
1,491.8	Bucke station	1,424
1,503.8	Fowler station	1,373
1,513.5	Ycliff station	1,320
1,517.6	Sturgeon river, high water, 1,196; low water, 1,194; rail	1,220
1,521.0	Robinson station	1,215
1,529.2	Smith station	1,227
1,536.4	Rosnel station	1,201
1,545.8	Superior, junction with Thunder Bay branch	1,209
1,546.5	Sturgeon river, high water, 1,177; low water, 1,171; rail	1,202
1,548.0	Abram lake, high water, 1,177; low water	1,171
1,552.1	Graham station	1,197
1,553.4	English river, high water, 1,177; low water, 1,171; rail	1,187
1,555.0	Pelican lake, high water	1,178
1,558.4	Pelican station	1,211
1,564.8	Hudson station	1,173
1,565.0	Lost lake, water	1,157
1,572.8	Webster station	1,252
1,579.9	Taggart station	1,309
1,584.3	Sunstrum station	1,311
1,587.7	Edith creek, high water, 1,287; low water, 1,285; rail	1,296
1,591.6	Millidge station	1,316
1,597.9	Richan station	1,302
1,603.5	Freda station	1,300
1,610.3	Hunter station	1,316
1,612.0	Summit, rail	1,387
1,618.2	Morgan station	1,289
1,626.2	Wabigoon river, high water, 1,109; low water, 1,105; rail	1,155

Miles from Moncton	NATIONAL TRANSCONTINENTAL RAILWAY	Elevation above mean sea level
1,627.4	Quibell station	1,147
1,636.0	McIntosh station	1,247
1,643.0	Canon station	1,239
1,651.3	Canon lake, high water, 1,232; low water	1,220
1,651.9	Favel station	1,232
1,658.9	Jones station	1,291
1,666.2	Farlane station	1,200
1,671.0	Brinka station	1,133
1,674.8	Basket lake, water	1,059
1,675.8	Redditt station	1,083
1,681.7	Macfarlane river, water, 1,062; rail	1,074
1,681.9	Ena lake, water	1,062
1,682.2	Ena station	1,090
1,689.6	Winnipeg river, high water, 1,040; low water, 1,033; rail	1,069
1,690.0	Gun lake, low water, 1,033; high water	1,040
1,690.2	Minaki station	1,067
1,696.3	Wade station	1,194
1,702.6	Cygnat lake, water	1,078
1,702.9	Otter lake, water	1,078
1,705.9	Malachi station	1,102
1,705.9	Malachi lake, water	1,081
1,711.8	White station	1,136
1,715.9	Summit	1,161
1,719.8	Ophir station	1,157
1,721.4	Cross lake, water	1,042
1,727.6	Dott station	1,109
1,734.5	Brereton station	1,048
1,736.8	Canadian Pacific Ry., main line, crossing, C. P. Ry., rail 1,035.5; N.T. Ry., rail	1,062.7
1,739.8	Hector station	1,011
1,748.8	Whitemouth river, high water, 922; low water, 919; rail	938
1,749.7	La Rivière station	940
1,756.8	Lewis station	940
1,763.9	East Brokenhead river, high water, 905; low water, 901; rail	912
1,764.3	Hazel station	902
1,770.5	West Brokenhead river, high water, 872; low water, 868; rail	878
1,774.2	Vivian station	902
1,782.2	Anola station	843
1,790.7	Dugald station	769
1,798.7	Transcona station	766
1,801.7	Seine river, high water, 753; low water, 732; rail	784
1,802.7	Red river, high water, 753; low water, 730; rail	773
1,804.7	Winnipeg, Fort Garry station	775
GRAND TRUNK PACIFIC RAILWAY—MAIN LINE		
Miles from Winnipeg		
0.0*	Winnipeg, Fort Garry station	775
0.4	Assiniboine river, water, 729; rail	762
1.7	Grand Trunk Pacific junction	766
4.3	Great Northern Ry. crossing	766
4.4	Canadian Pacific Ry., La Rivière branch, crossing	766
4.5	Oak Point junction, with Canadian Northern Ry., Oak Point branch	766
6.5	Pacific, junction with Canadian Northern Ry., main line	772
13.9	Canadian Pacific Ry., Southwestern branch, crossing	785
14.4	West Winnipeg station	785

*1,804.7 miles from Moncton

Miles from
Winnipeg

GRAND TRUNK PACIFIC RAILWAY- MAIN LINE

Elevation
above mean
sea level

16.0	Crossing Principal meridian	785
17.6	Beaudry station	784
22.3	Cabot station	791
30.2	La Salle river, bed, 786; rail	794
30.7	Elie station	794
36.2	La Salle river, water, 800; rail	804
37.1	Fortier station	805
40.3	Sale river, high water, 815; low water, 812; rail	823
44.3	Gervais station	828
45.2	Assiniboine river, high water, 834; low water, 825; rail	846
53.0	Canadian Northern Ry., main line, crossing	855.3
54.3	Portage la Prairie station	857.2
55.2	Canadian Pacific Ry., main line, crossing	860
55.2	Canadian Northern Ry., Portage la Prairie and Regina, crossing	860
59.8	Aroia station	855
62.8	Rat creek, rail	878
63.3	Barr station	880
71.0	Cave station	940
75.5	Beaver creek, bed, 941; rail	951
77.1	Deer station	964
79.0	Canadian Pacific Ry., Varcoc branch, crossing	968
82.2	Water tank	994
82.5	Squirrel brook, bed, 978; rail	998
84.5	Exira station	1,005
91.5	Firdale station	1,133
94.0	Brook, bed, 1,118; rail	1,186
99.7	Gregg station	1,285
103.8	Canadian Northern Ry., Carberry branch, crossing	1,280
106.8	Harte, junction with Brandon branch	1,277
112.3	Depression, rail	1,272
113.2	Ingelow station	1,278
120.6	Water tank	1,415
121.8	Justice station	1,438
128.3	Canadian Pacific Ry., Rapid City branch, crossing	1,520
129.4	Knox station	1,532
136.9	Levine station	1,550
141.7	Little Saskatchewan river, bed 1,476; rail	1,563
142.2	Rivers station	1,571
146.9	Oak river, water, 1,571; rail	1,596
147.9	Myra station	1,603
152.0	Norman station	1,623
158.4	Oakner station (summit)	1,647
164.9	Pope station	1,630
170.8	Quadra station	1,562
171.2	Canadian Pacific Ry., Miniota branch, crossing, C.P.Ry., rail, 1,536; G.T.P.Ry., rail	1,562
171.3	Arrow river, bed, 1,532; rail	1,564
176.6	Rea station	1,521
181.1	Minnewashla creek, water, 1,282; rail	1,396
186.2	Uno station	1,372
190.1	Birdtail creek, water, 1,254; rail	1,305
193.2	Treat station	1,276
197.9	Snake creek, bed, 1,286; rail	1,289
203.5	Lazare station	1,301
204.5	Assiniboine river, high water (May, 1904), 1,296; water, 1,280; rail	1,305
208.8	Victor station	1,408
212.6	Brook, bed, 1,469; rail	1,494

Miles from
Winnipeg

GRAND TRUNK PACIFIC RAILWAY—MAIN LINE

Elevation
above mean
sea level

217.1	Welby station.....	1,500
224.7	Spy Hill station.....	1,520
231.2	Gerald station.....	1,652
233.4	Cutarm creek, high water, 1,525; water, 1,520; rail.....	1,549
233.7	Cutarm station.....	1,654
238.0	Yarbo station.....	1,687
241.5	Crossing Second Initial meridian.....	1,720
244.1	Zeneta station.....	1,733
251.9	Atwater station.....	1,733
257.4	Bangor station.....	1,739
265.4	Waldron station.....	1,733
271.5	Cana station.....	1,779
279.3	Melville, junction with Regina and Boundary and Yorkton branches	1,811
283.1	Water tank.....	1,867
285.9	Birmingham station.....	1,891
291.4	Fenwood station.....	1,984
298.2	Goodeve station.....	2,104
307.8	Hubbard station.....	2,175
313.8	Ituna station.....	2,213
314.7	Crooked lake, high water, 2,207; water, 2,206; rail.....	2,213
317.1	Long lake, high water, 2,212; low water, 2,211; rail.....	2,227
321.4	Jasmin station.....	2,211
323.6	Depression.....	2,192
326.1	Kelliher station.....	2,219
331.8	Leross station.....	2,219
332.3	Summit.....	2,231
333.5	Lake, high water, 2,200; water, 2,199; rail.....	2,205
337.3	Lestock station.....	2,207
339.7	Lake, high water, 2,158; water, 2,157; rail.....	2,171
343.8	Water tank.....	2,173
345.0	Touchwood station.....	2,186
351.9	Punnichy station.....	2,113
357.0	Quinton station.....	2,085
362.3	Raymore station.....	2,036
371.6	Semans station.....	1,845
376.6	Tate station.....	1,748
385.6	Nokomis station.....	1,718
385.9	Canadian Pacific Ry., Kirkella and Lanigan branch, crossing	1,720
393.5	Undora station.....	1,659
395.1	Water tank.....	1,665
397.4	Stony lake, high water, 1,644; water, 1,641; rail.....	1,647
400.0	Venn station.....	1,696
408.4	Watrous station.....	1,784
411.8	Summit.....	1,829
414.0	Xena station.....	1,706
422.3	Young, junction with Prince Albert branch.....	1,717
423.0	Canadian Pacific Ry., Colonsay branch, crossing	1,716
429.0	Summit, rail.....	1,774
431.0	Zuma station.....	1,758
438.2	Allan station.....	1,733
446.6	Bradwell station (summit).....	1,762
453.6	Clavet station.....	1,730
460.6	Duro station.....	1,666
466.6	South Saskatoon station.....	1,656
467.2	Canadian Northern Ry., Regina and Prince Albert line, crossing	1,654.4
468.3	South Saskatchewan river, extreme high water, 1,571; low water, 1,553; rail.....	1,622

Miles from Winnipeg	GRAND TRUNK PACIFIC RAILWAY—MAIN LINE	Elevation above mean sea level
471.5	Canadian Northern Ry., Saskatoon and Calgary branch, crossing	1,654
474.7	Farley station.....	1,658.4
481.7	Grandora station.....	1,660.3
486.4	Hawoods station.....	1,645.1
492.0	Asquith station.....	1,710.8
496.9	Juniata station.....	1,791.1
499.3	Eagle-hill creek, high water, 1,743; water, 1,734; rail.....	1,757
500.9	Alkali creek, high water, 1,745; water, 1,739; rail.....	1,751
501.5	Kinley station.....	1,754.9
507.4	Leney station.....	1,823.4
515.2	Mead station.....	1,986.0
519.7	Neola station.....	2,044.3
520.2	Lake, water, 2,020; rail.....	2,031
523.4	Water tank.....	2,096
526.7	Biggar, junction with Lovern branch.....	2,154.0
531.2	White Shore lake, water, 2,085; rail.....	2,108
535.1	Oban, junction with Battleford branch.....	2,125
542.5	Palo station.....	2,107.4
549.3	Landis station.....	2,133.5
552.4	Depression.....	2,105
556.7	Coblentz station, summit.....	2,225.1
563.3	Reford station.....	2,144.3
564.3	Canadian Pacific Ry., Reford branch, crossing.....	2,143.2
569.4	Scott station.....	2,163.0
570.0	Summit.....	2,193
577.8	Tako station.....	2,106.0
584.6	Unity station.....	2,092.0
586.8	Canadian Pacific railway, Portage la Prairie and Wetaskiwin line, crossing, C.P.Ry., rail, 2,075; G.T.P.Ry., rail.....	2,046
595.0	Depression.....	1,925
595.1	Vera station.....	1,930.2
600.6	Water tank.....	1,955
604.1	Winter station.....	1,987
607.2	Summit.....	2,036
611.2	Yonker station.....	1,981.0
612.2	Depression.....	1,974
612.7	Eyehill creek, ice, 1,968; rail.....	1,980
617.6	Zumbro station.....	2,055.7
623.3	Artland station.....	2,008.0
627.7	Saskatchewan and Alberta boundary.....	1,997.0
629.9	Butze station.....	2,017.8
633.6	Chauvin station.....	2,059.8
638.5	Ribstone station.....	2,032.5
643.5	Dunn station.....	2,107.2
647.5	Edgerton station.....	2,119.1
649.9	Ribstone creek, water, 2,074; rail.....	2,081
654.5	Heath station.....	2,172.5
656.7	Ribstone creek, rail.....	2,137
662.1	Greenshields station.....	2,253.3
664.1	Summit.....	2,276
666.8	Wainwright station.....	2,222.1
672.4	Fabyan station.....	2,138.8
676.0	Battle river, high water, 1,938; low water, 1,911; rail.....	2,092
677.8	Hawkins station.....	2,132.5
681.9	Water tank.....	2,211
683.9	Irma station.....	2,244.8
691.7	Jarrow station.....	2,347.0

Miles from Winnipeg	GRAND TRUNK PACIFIC RAILWAY—MAIN LINE	Elevation above mean sea level
696.2	Depression.....	2,272
698.1	Kinsella station.....	2,297.4
703.1	Philips station.....	2,297.7
710.6	Viking station.....	2,267.0
717.3	Nestor station.....	2,253.9
723.0	Bruce station.....	2,240.5
731.8	Holden station.....	2,253.7
736.3	Poe station.....	2,247.3
741.1	Ryley station.....	2,273.1
742.3	Canadian Northern Ry., Battle River branch, crossing.....	2,274.8
746.7	Water tank.....	2,232
747.2	Shonts station.....	2,235.5
752.4	Tofield, junction with Calgary branch.....	2,294.8
764.2	Deville station.....	2,444.2
766.8	Cooking Lake tank.....	
767.2	Cooking lake, water, 2,420; rail.....	2,430
770.2	Uncas station.....	2,450.3
776.1	Ardrossan station.....	2,339.9
785.1	Clover Bar station.....	2,155.1
788.0	North Saskatchewan river, high water, 2,029; low water, 1,998; rail.....	2,137
789.3	East junction switch.....	2,161
792.9	Edmonton station.....	2,185.4
797.8	Edmonton, Dunvegan and British Columbia Ry. junction.....	2,221
799.5	Canadian Northern Ry., main line, crossing.....	2,183
800.1	Bissell station.....	2,239
807.1	Acheson station.....	2,338
812.3	Spruce Grove station.....	2,325
816.6	Stony Plain station.....	2,324
825.5	Carvel station.....	2,458
831.3	Duffield station.....	2,379
836.2	Wabamun lake, high water, 2,381; water (Dec. 20, 1906), 2,378; grade.....	2,386
837.4	Wabamun station.....	2,386
844.6	Fallis station.....	2,400
850.9	Gainford station.....	2,440
854.2	Sturgeon creek, bed, 2,423; rail.....	2,478
859.0	Entwhistle station.....	2,570
860.5	Pembina river, ice, 2,352; high water, 2,376; rail.....	2,555
864.9	Inrie station.....	2,580
869.7	Junkins station.....	2,620
875.1	Keston station.....	2,622
880.2	Canadian Northern Ry., main line, crossing.....	2,602
881.0	Leaman station.....	2,611
885.1	MacKay station.....	2,657
892.4	Niton station.....	2,736
895.7	Orley station.....	2,769
902.6	Peers station.....	2,787
909.0	Rosevear station.....	2,838
913.6	Thornton station.....	2,858
915.5	McLeod river, high water, 2,773; low water, 2,764; rail.....	2,879
917.0	Yates station.....	2,885
922.4	Edson station.....	2,985
927.5	Ansell station.....	3,038
929.4	Sundance creek, high water, 2,947; water (May, 1907), 2,943; rail.....	3,063
931.8	Bickerdike, junction with Alberta Coal branch.....	3,107
937.0	Dandurand station.....	3,192
939.3	Blackmud brook, high water, 3,160; water, 3,159; rail.....	3,206

Miles from Winnipeg	GRAND TRUNK PACIFIC RAILWAY—MAIN LINE	Elevation above mean sea level
942.3	Galloway station.....	3,286
945.8	Sucker creek, high water, 3,295; rail.....	3,353
948.8	Medicine Lodge station.....	3,392
953.6	Hargwen station.....	3,480
957.8	Summit.....	3,570
958.7	Obed station.....	3,560
962.6	Ponoka Camp creek, high water, 3,412; water, 3,409; rail.....	3,490
964.2	Roundcroft station.....	3,470
970.1	Pedley station.....	3,464
975.9	Hardisty creek, high water, 3,310; water, 3,309; rail.....	3,361
978.2	Hinton station.....	3,326
980.2	Prairie creek, high water, 3,181; water, 3,180; rail.....	3,272
980.5	Depression.....	3,212
983.1	Dyke station.....	3,290
989.7	Summit.....	3,309
991.7	Parkgate station.....	3,283
997.8	Miette Hot Springs station.....	3,256
1,001.0	Pecahontas station.....	3,258
1,006.2	Rocky river, high water, 3,289; water (June, 1907), 3,285; rail...	3,290
1,006.8	Hawes station.....	3,290
1,011.3	Jasper lake, high water, 3,287; low water, 3,284; rail.....	3,290
1,012.7	Interlaken station.....	3,292
1,016.2	Athabaska river, high water, 3,295; water, 3,293; rail.....	3,306
1,017.8	Athabaska river, high water (July, 1907), 3,311; water, 3,309; rail	3,321
1,019.8	Henry House station.....	3,336
1,020.6	Canadian Northern Ry., main line, crossing, C. N. Ry., rail, 3,320; G. T. P. Ry., rail.....	3,347
1,027.8	Jasper station.....	3,469
1,031.3	Siding.....	3,518
1,034.6	Miette river, high water, 3,559; bed, 3,549; rail.....	3,581
1,035.2	Geikie station.....	3,590
1,037.9	Miette river, high water, 3,597; rail.....	3,611
1,043.7	Miette river, high water, 3,701; water, 3,699; rail.....	3,718
1,044.0	Summit of Rocky mountains, Yellowhead pass (Alberta-British Columbia boundary), rail (7 feet below natural surface), by levels from Winnipeg, 3,723; by levels from Prince Rupert	3,720.5
1,044.3	Yellowhead station.....	3,717
1,048.5	Lucerne station.....	3,642
1,049.0	Yellowhead lake, high water, 3,623; water (Aug. 15, 1907), 3,622; rail.....	3,632
1,054.0	Fraser river, high water, 3,498; water (Aug. 21, 1907), 3,495; rail.	3,553
1,054.7	Alpland station.....	3,547
1,058.6	Grant Brook station.....	3,470
1,060.4	Moose river, high water, 3,419; water (Aug. 26, 1907), 3,416; rail...	3,430
1,064.5	Moose lake, high water, 3,390; water (Aug. 28, 1907), 3,386; rail	3,396
1,064.6	Rainbow station.....	3,396
1,068.7	Red Pass station.....	3,399
1,072.5	Resplendent station.....	3,402
1,073.0	Fraser river, high water, 3,363; water, 3,361; rail.....	3,398
1,077.6	Glacier creek, water, 3,161; rail.....	3,179
1,079.0	Mount Robson station.....	3,103
1,084.6	Swiftwater station.....	2,836
1,089.1	Albreda station.....	2,656
1,094.6	McLennan creek, water, 2,408; rail...	2,447
1,095.3	Tête Jaune station.....	2,402
1,100.2	Shere station.....	2,420

Miles from
Winnipeg

GRAND TRUNK PACIFIC RAILWAY—MAIN LINE

Elevation
above mean
sea level

1,107.9	Croydon station.....	2,525
1,114.2	Dunster station.....	2,520
1,121.7	Raush Valley station.....	2,450
1,123.7	Rau Shuswap river, high water, 2,334; water, 2,330; rail.....	2,418
1,127.6	Eddy station.....	2,363
1,134.5	McBride station.....	2,367
1,138.9	Cariboo station.....	2,379
1,147.3	Legrand station.....	2,312
1,156.7	Knole station.....	2,234
1,157.3	Fraser river, high water, 2,220; rail.....	2,228
1,160.1	Goat river, high water, 2,195; low water, 2,190; rail.....	2,210
1,162.1	Rooney station.....	2,196
1,168.4	Fraser river (back channel), high water, 2,127; water, 2,120; rail.....	2,143
1,170.5	Crescent Island station.....	2,160
1,172.8	Snowshoe creek, high water, 2,107; water, 2,104; rail.....	2,127
1,174.3	Fraser river, high water, 2,106; water, 2,097; rail.....	2,122
1,176.2	Urling station.....	2,123
1,182.4	Tunnel, east portal, rail.....	2,122
1,185.3	Kid station.....	2,126
1,186.2	Beaver lake, water.....	2,102
1,189.3	Fraser river, high water, 2,075; water, 2,064; rail.....	2,092
1,191.0	Bend station.....	2,087
1,198.7	Guilford station.....	2,131
1,208.2	Lindup station.....	2,189
1,212.5	Longworth station.....	2,181
1,213.9	Toneykwa creek, water, 2,154; rail.....	2,164
1,220.6	Hutton station.....	2,045
1,225.2	Fraser river, water, 1,997; rail.....	2,012
1,225.7	Dewey station.....	2,012
1,229.9	Fraser river, water, 1,990; rail.....	2,010
1,232.3	Fraser river, high water, 1,995; water, 1,983; rail.....	2,012
1,233.3	Hansard station.....	2,005
1,234.2	Creek, water, 1,987; rail.....	2,003
1,236.7	Creek, water, 1,993; rail.....	2,009
1,242.1	Aleza Lake station.....	2,003
1,244.3	Otter lake, water, 1,989; rail.....	1,999
1,247.1	Aleza lake, water, 1,993; rail.....	2,004
1,248.5	Newlands station.....	1,967
1,255.4	Giscome station.....	1,961
1,258.5	Willow river, high water, 1,932; water, 1,929; rail.....	1,936
1,259.4	Eagle lake, high water, 1,954; ordinary water.....	1,951
1,260.2	Willow River station.....	1,918
1,260.6	Willow river, high water, 1,904; water, 1,896; rail.....	1,923
1,262.7	Fraser river, high water, 1,896; water, 1,887; rail.....	1,910
1,269.2	Shelley station.....	1,892
1,270.2	Slough, ice, 1,865; high water, 1,878; rail.....	1,898
1,273.0	Foreman station.....	1,931
1,277.3	Pacific Great Eastern Ry., switch.....	1,877
1,277.4	Fraser river, high water, 1,861; water, 1,848; rail.....	1,877
1,279.2	Prince George, junction with Pacific Great Eastern railway.....	1,867
1,284.3	Otway station.....	1,952
1,288.3	Miworth station.....	2,013
1,293.2	Chilako station.....	1,983
1,294.1	Chilako river, high water, 1,954; water, 1,948; rail.....	1,990
1,299.3	Bednesti station.....	2,015
1,307.2	Nichol station.....	2,044
1,311.7	Isle Pierre station.....	2,099

Miles from
Winnipeg

GRAND TRUNK PACIFIC RAILWAY—MAIN LINE

Elevation
above mean
sea level

1,318.0	Hutchison station.....	2,084
1,324.1	Wedgwood station.....	2,147
1,329.4	Stuart station.....	2,092
1,330.7	Nechako river, high water.....	2,075
1,336.0	Hulatt station.....	2,089
1,337.4	Nechako river, high water, 2,079; rail.....	2,086
1,342.4	Tsinkut station.....	2,097
1,345.7	Nechako river, high water, 2,085; water, 2,075; rail.....	2,094
1,348.7	Vanderhoof station.....	2,093
1,349.3	Stoney creek, high water, 2,087; water, 2,081; rail.....	2,097
1,349.9	Nechako river, high water, 2,089; water, 2,083; rail.....	2,097
1,355.6	McCall station.....	2,196
1,362.0	Engern station.....	2,314
1,366.9	Marten lake, water.....	2,335
1,367.1	Marten Lake station.....	2,347
1,373.3	Fort Fraser station.....	2,245
1,374.7	Upper Nechako river, water (April 4, 1908), 2,185; rail.....	2,231
1,381.0	Midlake station.....	2,204
1,386.6	Fraser lake, low water, 2,192; high water, 2,196; rail.....	2,204
1,387.0	Fraser Lake station.....	2,205
1,388.6	Endako river, water, 2,190; high water, 2,199; rail.....	2,206
1,395.1	Endako station.....	2,242
1,401.1	Savory station.....	2,258
1,405.8	Endako river, water, 2,244; rail.....	2,260
1,407.4	Endako river, water, 2,259; rail.....	2,270
1,407.9	Lake Eye, water, 2,269; rail.....	2,274
1,408.1	Lake, water, 2,271; rail.....	2,274
1,409.1	Priestly station.....	2,276
1,412.4	Endako river, water, 2,265; rail.....	2,282
1,414.0	Endako river, water, 2,270; rail.....	2,285
1,415.2	Sheraton station.....	2,286
1,421.5	Tintagel station.....	2,307
1,429.6	Burns Lake station.....	2,312
1,431.7	Decker lake, water (Oct. 5, 1908), 2,288; rail.....	2,305
1,434.8	Decker Lake station.....	2,326
1,440.4	Palling station.....	316
1,445.8	Rose Lake station (summit).....	3
1,453.4	Bulkley station.....	2,300
1,461.5	Topley station.....	2,196
1,467.5	Perow station.....	2,101
1,474.6	Quick station.....	1,975
1,479.4	Houston station.....	1,951
1,486.0	Barrett station.....	1,872
1,487.8	Morice river, high water, 1,852; water, 1,845; rail.....	1,863
1,493.3	Walcott station.....	1,804
1,501.4	Knockholt station.....	1,736
1,507.1	Hubert station.....	1,688
1,510.7	Telqua river, bed, 1,646; rail.....	1,664
1,513.8	Tatlow station.....	1,598
1,519.6	Smithers station.....	1,631
1,523.2	Lake Kathlyn station.....	1,653
1,528.7	Evelyn station.....	1,557
1,533.1	Trout creek, rail.....	1,483
1,535.0	Doughty station.....	1,448
1,538.9	John Brown creek, bed, 1,333; rail.....	1,383
1,541.6	Moricietown station.....	1,342
1,546.0	Boulder creek, bed, 1,114; rail.....	1,272

ALTITUDES IN CANADA

Miles from Winnipeg	GRAND TRUNK PACIFIC RAILWAY—MAIN LINE	Elevation above mean sea level
1,546.9	Seaton station.....	1,280
1,551.5	Beament station.....	1,213
1,559.0	Duncan station.....	1,107
1,565.5	New Hazelton station.....	1,030
1,569.2	Hazelton station.....	973
1,576.2	Carnaby station.....	851
1,582.1	Skeena river, extreme high water, 631; normal high water, 623; extreme low water, 602; rail.....	743
1,583.4	Nash station.....	744
1,588.1	Andimaul station.....	659
1,592.7	Kitwanga station.....	584
1,594.7	Getwinkowl river, bed, 532; rail.....	561
1,598.8	Ksiden creek, bed, 524; rail.....	554
1,600.3	Woodcock station.....	537
1,605.7	Cedarvale station.....	502
1,608.3	Mosquito creek, bed, 465; rail.....	489
1,612.7	Porcupine creek, bed, 436; rail.....	464
1,614.1	Ritchie station.....	457
1,617.2	Lorne creek, bed, 422; rail.....	461
1,620.0	Fiddler creek, bed, 404; rail.....	437
1,620.6	Dorreen station.....	412
1,623.5	Thunder creek, bed, 355; rail.....	389
1,626.7	Pacific station.....	372
1,632.2	Pitman station.....	344
1,638.9	Usk station.....	294
1,645.9	Vanarsdol station.....	239
1,651.5	Terrace station.....	223
1,656.0	Kitsumgallum river, high water, 166; rail.....	183
1,659.0	Zymagoitz river, high water, 149; rail.....	156
1,661.1	Amisbury station.....	151
1,669.2	Shames station.....	103
1,675.6	Exstew river, bed, 69; rail.....	88
1,676.2	Exstew station.....	71
1,685.7	Creek, bed, 26; rail.....	55
1,688.0	Salvus station.....	40
1,699.7	Kwinitsa station.....	19
1,713.3	Skeena City station.....	19
1,717.3	Aberdeen station.....	19
1,719.6	Tyce station.....	19
1,728.1	Port Edward station.....	19
1,729.4	Sockeye station.....	19
1,731.1	Cassiar Cannery.....	19
1,734.7	Inverness Cannery.....	19
1,735.4	Phelan station.....	19
1,739.6	Zanardi Rapids bridge (tidewater) rail.....	19
1,740.7	Kaien station.....	19
1,746.1*	Prince Rupert station.....	19
Miles from Graham	GRAND TRUNK PACIFIC RAILWAY—LAKE SUPERIOR BRANCH	
0.0	Graham station.....	1,197
6.2	Superior, junction with Grand Trunk Pacific (National Transcon- tinental) Ry., 1,545.8 miles from Moncton.....	1,209
9.8	Alcona station.....	1,237
15.0	Bear lake, high water, 1.235; low water, 1.233; rail.....	1,274

*3,550.8 miles from Moncton

Miles from
GrahamGRAND TRUNK PACIFIC RAILWAY—LAKE
SUPERIOR BRANCHElevation
above mean
sea level

17.0	Zarn station	1,311
24.2	Yonde station	1,338
28.4	Hunt station	1,304
28.9	Jarvis lake, water, 1,291; rail	1,306
30.2	Crescent lake, high water, 1,312; rail	1,319
34.7	Wako station	1,338
35.0	Grassy river, bed, 1,318; rail	1,343
43.3	Valora station	1,403
45.0	Surprise lake, water (Oct. 25, 1905), 1,398; high water, 1,401; rail	1,418
49.7	Unaka station	1,428
51.5	Togo lake, water (Oct. 25, 1905), 1,421; high water, 1,423; rail	1,430
52.4	English river, water, 1,415; high water, 1,418; rail	1,427
55.9	Tannin station	1,470
60.5	Sowden station	1,465
63.4	Jiu-jitsu lake, rail	1,462
67.9	Reba station	1,465
70.6	Selwyn lake, high water, 1,452; low water, 1,449; rail	1,455
71.2	English river, water, 1,447; rail	1,456
73.0	Quorn station	1,459
73.4	Bear river, high water, 1,452; rail	1,459
80.7	Petry station	1,520
84.4	Low Wave river, water, 1,543; rail	1,556
87.7	Oscar station	1,596
90.2	Summit	1,647
95.4	Knowlton station	1,617
99.6	Summit	1,675
105.9	Firesteel river, water, 1,583; rail	1,595
106.7	Mack station	1,593
112.6	Hazel lake, water	1,566
112.6	Larson station	1,567
117.8	Summit	1,590
119.6	Kelly station	1,558
127.2	James station	1,537
130.4	Depression	1,521
132.7	Linko station	1,555
138.0	Summit	1,584
138.1	Raith station	1,582
144.0	Horne station	1,487
146.9	Depression	1,421
149.3	Griff station	1,445
154.4	Summit	1,476
155.2	Tunnel, rail	1,378
156.2	Flett station	1,357
159.3	Sunshine creek, low water, 1,199; high water, 1,205; rail	1,266
162.2	Ellis station	1,200
168.2	Dog river, low water, 995; high water, 1,001; rail	1,039
168.6	Dona station	1,041
174.1	Crest station	1,084
175.2	Corbett creek, low water, 1,049; high water, 1,052; rail	1,065
181.8	Baird station	920
188.8	Alba station	750
194.4	Canadian Pacific Ry., main line crossing	636
195.0	Fort William station	613
	Kaministiquia river, high water, 605; low water, 601; rail	635

Miles from Harte	GRAND TRUNK PACIFIC RAILWAY—BRANDON BRANCH	Elevation above mean sea level
0.0	Harte, junction with main line, 106.8 miles from Winnipeg.....	1,277
4.0	Grade.....	1,269
9.3	Grade.....	1,270
14.4	Canadian Pacific Ry., main line, crossing, C.P. Ry., rail, 1,217; G.T.P. Ry., rail.....	1,241
16.4	Creek diversion.....	1,204
19.5	Assiniboine river, high water, 1,166; flood (1904), 1,172, water (June, 1911), 1,158; rail.....	1,182
23.1	Canadian Northern Ry. crossing, rail.....	1,265
24.4	Canadian Northern Ry., Exhibition spur, crossing, rail.....	1,272
24.7	Canadian Northern Ry., Portage la Prairie and Regina branch, crossing.....	1,272
25.5	Brandon, Great Northern Ry. transfer track.....	1,287
Miles from Melville	GRAND TRUNK PACIFIC RAILWAY—REGINA AND BOUNDARY BRANCH	
0.0	Melville, junction with main line, 279.3 miles from Winnipeg.....	1,811
7.7	Colmer station.....	1,886
13.1	Duff station.....	1,918
18.5	Finnie station.....	1,916
22.2	Lorlie station.....	1,949
27.7	Gillespie station.....	1,979
29.8	Summit.....	2,000
33.8	Balcarres station.....	1,958
34.2	Canadian Pacific Ry., Kirkella and Lanigan branch, crossing.....	1,956
36.2	Hugonard station.....	1,937
42.7	Lebret station.....	1,536
46.8	Qu'Appelle river, low water, 1,569; high water, 1,576; rail.....	1,583
47.3	Fort Qu'Appelle station.....	1,593
53.5	Moscow station.....	1,917
62.2	Edgeley station.....	2,074
67.8	Avonhurst station.....	2,123
73.3	Edenwold station.....	2,175
78.1	Summit.....	2,247
79.3	Franksburg station.....	2,218
83.6	Tehner station.....	2,116
89.6	Victoria Plains station.....	1,934
92.8	Canadian Pacific Ry., Colonsay branch, crossing.....	1,909
94.7	Canadian Northern Ry., Regina and Prince Albert, crossing.....	1,882.7
97.0	Canadian Pacific Ry., main line, crossing.....	1,883.6
98.4	Regina station.....	1,893.3
106.6	Rowatt station.....	1,882
113.9	Estlin station.....	1,961
120.7	Gray station.....	1,963
127.7	Riceton station.....	1,900
133.4	Lindley station.....	1,897
140.1	Lewvan station.....	1,903
146.2	Colfax station.....	1,928
153.3	Cedoux station.....	1,948
160.0	Rainton station.....	1,966
164.9	Talmage, junction with Weyburn branch.....	1,982
171.4	Brough station.....	1,987
177.3	Canadian Pacific Ry., Weyburn and Stoughton branch, crossing.....	1,982
178.0	Griffin station.....	1,986
183.7	Innes station.....	1,973
189.6	Huntoon station.....	1,972

GRAND TRUNK PACIFIC RAILWAY

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Miles from
Melville

GRAND TRUNK PACIFIC RAILWAY—REGINA AND BOUNDARY BRANCH

Elevation
above mean
sea level

194.9	Viewfield station	1,969
201.8	Benson station	1,956
207.6	Sander station	1,946
213.6	Minard station	1,940
214.2	Canadian Northern Ry., Moose Jaw branch, crossing	1,944
219.0	Breeze station	1,941
223.9	Steelman station	1,927
228.2	Deborah station	1,920
233.3	Frobisher station	1,889
233.9	Canadian Pacific Ry., Souris branch, crossing	1,884
240.1	Openshaw station	1,865
246.4	Souris river, high water, 1,701; ice, 1,681; rail	1,707
249.8	Elcott station	1,841
253.4	Northgate station, International boundary	1,841

Miles from
Talmage

GRAND TRUNK PACIFIC RAILWAY—WEYBURN BRANCH

0.0	Talmage , junction with Regina and Boundary branch, 164.9 miles from Melville	1,982
6.6	Mansur station	1,942
13.2	Canadian Pacific Ry., Portal branch, crossing	1,859
13.6	Weyburn station	1,860
19.8	End of profile	1,908

Miles from
Regina

GRAND TRUNK PACIFIC RAILWAY—MOOSE JAW BRANCH

0.0	Regina , junction with Regina and Boundary branch	1,893.3
2.2	Wascana creek, high water, 1,858; rail	1,874
8.9	Sidmar station	1,881
10.5	Siding	1,876
12.2	Cottonwood creek, bed, 1,807; rail	1,865
13.4	Adams station	1,876
21.0	Keystown station	1,899
26.1	Stony Beach station	1,909
32.4	Eastview station	1,903
37.7	Burdick station	1,771
41.2	Canadian Pacific Ry., Outlook branch, crossing, C.P. Ry., rail, 1,786; G.T.P. Ry., rail	1,761
43.9	Moose Jaw , temporary station	1,834
47.0	Siding	1,851
55.9	Archdale station	1,924
61.7	Forgray station	1,967
67.3	Rowletta station	1,989
72.5	Lake Valley station	2,003
78.1	Eskbank station	1,994
85.1	Darmody station	1,972
90.2	Mawer station	1,971
96.0	Central Butte station	2,064
103.4	Lawson station	2,017
108.5	Gilroy station	2,121
111.9	End of steel	2,009
	South Saskatchewan river, extreme high water, 1,702; water (Sept. 1, 1912), 1,693; rail	1,702

Miles from Melville	GRAND TRUNK PACIFIC RAILWAY—YORKTON BRANCH	Elevation above mean sea level
0.0	Melville, junction with main line, 279.3 miles from Winnipeg....	1,811
7.4	Brewer station.....	1,785
12.3	Peoples station.....	1,772
16.0	Orthon station.....	1,712
21.4	Enfin station.....	1,698
22.6	Water tank.....	1,689
23.8	Spur line.....	1,706
26.0	Canadian Pacific Ry., Portage la Prairie and Wetaskiwin line, crossing.....	1,655
26.3	Yorkton station.....	1,654
30.2	Young siding.....	1,600
32.1	Mehan station.....	1,591
37.2	Ebenezer station.....	1,595
43.3	Gorlitz station.....	1,601
48.8	Water tank.....	1,584
	Whitesand river, high water, 1,570; rail.....	1,584
49.9	Burgis station.....	1,600
55.2	Canora, junction with Canadian Northern railway, main line, 742.8 miles from Port Arthur.....	1,603
	GRAND TRUNK PACIFIC RAILWAY—PRINCE ALBERT BRANCH	
Miles from Young		
0.0	Young, junction with main line, 422.3 miles from Winnipeg.....	1,717
6.5	Ancrum station.....	1,722
12.2	Neely station.....	1,777
13.6	Canadian Pacific Ry., Portage la Prairie and Wetaskiwin line, crossing.....	1,765
17.9	Ruttan station.....	1,780
24.7	Meacham station.....	1,773
30.8	Summit.....	1,902
32.0	Petersen station.....	1,883
36.0	Depression.....	1,820
39.0	Totzke station.....	1,897
39.3	Canadian Northern Ry., main line crossing.....	1,894
42.8	Maskakee Springs station.....	1,787
43.1	Depression.....	1,782
46.7	Bremen station.....	1,872
55.5	Cudworth station.....	1,878
59.5	Leofnard station.....	1,863
67.0	Wakaw station.....	1,684
67.8	Depression.....	1,673
70.8	Ens station.....	1,783
77.0	Domremy station.....	1,618
81.0	Depression.....	1,554
83.1	St. Louis station.....	1,568
87.0	South Saskatchewan river, ice, 1,406; high water, 1,428; rail....	1,437
89.0	Gerrond station.....	1,477
94.7	Red Deer Hill station.....	1,498
96.1	Summit.....	1,550
101.5	Holmes station.....	1,475
108.7	Canadian Northern Ry., Dauphin and Prince Albert branch, cross- ing.....	1,507
111.8	Prince Albert station.....	1,414

GRAND TRUNK PACIFIC RAILWAY

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Miles from
Biggar

GRAND TRUNK PACIFIC RAILWAY—LOVERNA BRANCH

Elevation
above mean
sea level

0.0	Biggar, junction with main line, 526.7 miles from Winnipeg.....	2,154.0
7.1	Argo station.....	2,176
13.4	Lydden station.....	2,262
19.5	Springwater station.....	2,249
26.5	Ruthilda station.....	2,280
30.7	Downe station.....	2,155
36.9	Fort station.....	1,993
40.9	Adine station.....	2,066
47.6	Canadian Pacific Ry., Outlook branch, crossing.....	2,136
48.0	Doddsland station.....	2,132
49.3	Stoney creek, rail.....	2,148
54.3	Millerdale station.....	2,254
60.7	Beaufield station.....	2,227
67.4	Coleville station.....	2,321
73.7	Driver station.....	2,260
79.5	Smiley station.....	2,282
86.9	Dewar Lake station.....	2,319
87.7	Coulce, bed, 2,270; rail.....	2,311
91.4	Fee station.....	2,317
97.5	Greene station.....	2,285
102.6	Loverna station.....	2,261

GRAND TRUNK PACIFIC RAILWAY—BATTLEFORD BRANCH

Miles from
Oban

0.0	Oban, junction with main line, 535.1 miles from Winnipeg.....	2,125
0.9	Canadian Pacific Ry., Portage la Prairie and Wetaskiwin line, crossing.....	2,127
6.0	Lett station.....	2,152
11.6	Salter station.....	2,169
17.7	Cando station.....	2,274
22.5	Summit.....	2,411
23.7	Red Pheasant stati.....	2,387
32.2	Charlton station.....	2,235
36.7	Porter station.....	2,018
43.3	Dacer station.....	1,700
48.5	Battleford station.....	1,622

GRAND TRUNK PACIFIC RAILWAY—CUTKNIFE BRANCH

Miles from
Battleford

0.0	Battleford station.....	1,622
3.9	Battle river, water, 1,528; bed, 1,525; rail.....	1,32
6.0	Lindequist station.....	1,642
7.1	Creek, bed, 1,612; rail.....	1,647
11.1	Grade.....	1,832
12.1	Prongua station.....	1,847
17.0	Summit.....	2,011
20.9	Trestle, water (Sept. 1, 1911), 1,928; rail.....	1,977
24.0	Trestle, bed, 1,945; rail.....	2,001
25.7	Gallivan station.....	2,009
33.6	Rossman station (end of steel).....	2,024
39.3	Cutknife creek, bed, 1,965; rail.....	1,979
40.1	Cutknife creek, bed, 1,977; rail.....	1,988
41.0	Tatsfield station.....	2,031
46.5	Carruthers station.....	2,146
55.8	End of profile.....	2,118

Miles from Tofield	GRAND TRUNK PACIFIC RAILWAY—CALGARY BRANCH	Elevation above mean sea level
0.0	Tofield, junction with main line, 752.4 miles from Winnipeg	2,294.8
5.7	Bardo station	2,402
12.1	Kingman station	2,427
18.2	Dinant station (summit)	2,477
18.8	Water tank	2,464
23.6	Canadian Northern Ry., Strathcona branch, crossing	2,417
25.7	Canadian Pacific Ry., Portage la Prairie and Wetaskiwin line, crossing	2,428
26.0	Camrose station	2,427
28.0	Summit	2,477
29.9	Olin station	2,456
33.9	Battle river, low water, 2,251; high water, 2,260; rail	2,375
35.7	Duhamel station	2,431
39.1	New Norway station	2,459
46.5	Ferintosh station	2,476
52.0	Doreenlee station	2,539
60.2	Bashaw station	2,601
63.3	Depression	2,574
66.3	Summit	2,653
69.4	Spotted creek, rail	2,591
71.1	Mirror station	2,604
76.8	Canadian Pacific Ry., Coronation branch, crossing	2,607
77.4	Alix station	2,615
77.8	Canadian Northern Ry., Brazeau branch, crossing, C.N. Ry., rail, 2,648; G.T.P. Ry., rail	2,622
82.4	Bullockville station	2,668
84.2	Red Deer river, low water, 2,496; high water, 2,511; rail	2,648
87.2	Ardley station	2,576
92.4	Delburne station	2,839
97.3	Summit	2,978
99.0	Lousana station	2,937
100.6	Depression	2,893
108.3	Summit	3,051
108.9	Elnora station	3,036
114.3	Husley station	2,875
118.0	Ghostpine brook, rail	2,738
121.4	Trochu station	2,856
122.1	Trochu coulée, high water, 2,729; rail	2,847
125.1	Ghost Pine station	2,925
129.0	Summit	3,015
131.5	Three Hills station	2,930
136.2	Depression	2,754
138.0	Twining station	2,824
142.8	Summit	3,005
144.2	Swalwell station	2,945
149.7	Depression	2,767
150.1	Kneehills creek, low water, 2,688; high water, 2,699; rail	2,773
150.4	Grainger station	2,790
156.2	Bircham station	2,962
163.1	Beiseker station	2,996
165.2	Canadian Pacific Ry., Acme branch, crossing, C.P. Ry., rail, 3,008; G.T. Ry., rail	3,033
169.3	Irricana station	3,064
175.5	Kathryn station	3,163
183.1	Delacour station	3,369
188.6	Conrich station	3,380
189.4	Summit	3,498

Miles from Tofield	GRAND TRUNK PACIFIC RAILWAY—CALGARY BRANCH	Elevation above mean sea level
194.3	Hubalta station.....	3,467
197.8	Bow river, low water, 3,363; high water, 3,373; rail.....	3,401
200.0	Canadian Pacific Ry., Edmonton branch, crossing.....	3,406
200.7	Elbow river, high water, 3,408; water, 3,400; rail.....	3,416
201.5	Calgary station.....	3,415

Miles from Bickerdike	GRAND TRUNK PACIFIC RAILWAY—ALBERTA COAL BRANCH	
0.0	Bickerdike, junction with main line, 931.8 miles from Winnipeg.....	3,107
5.5	McLeod River station.....	3,097
5.9	McLeod river, high water, 3,047; water (April 10, 1910), 3,031; rail.....	3,092
10.8	Enrith station.....	3,196
16.4	Weald station.....	3,242
22.3	Embarras river, high water, 3,321; water, 3,316; rail.....	3,344
24.5	Embarras river, high water, 3,373; water, 3,369; rail.....	3,394
24.8	Embarras station.....	3,410
33.9	Embarras river, water, 3,701; rail.....	3,708
34.0	Minehead station.....	3,706
34.9	Embarras river, high water, 3,752; water, 3,750; rail.....	3,767
35.5	Embarras river, high water, 3,789; water, 3,784; bed, 3,782; rail.....	3,802
36.5	Embarras river, high water, 3,851; rail.....	3,863
37.0	Coalspur junction with Mountain Park spur.....	3,825
38.5	Yellowhead Spur switch.....	3,964
47.0	Shaw station.....	4,403
58.0	Leyland station.....	4,932
68.0	Mountain Park station.....	3,891
43.1	Diss station.....	4,399
43.3	Embarras river, Middle fork, high water, 4,318; rail.....	4,393
46.8	Basing station (summit).....	4,606
50.9	Mudge station.....	4,477
51.3	Little Pembina river, high water, 4,435; water, 4,430; rail.....	4,448
51.4	Little Pembina river, high water, 4,433; rail.....	4,445
52.0	Little Pembina river, high water, 4,426; water, 4,420; rail.....	4,433
55.5	Little Pembina river, high water, 4,366; water, 4,363; rail.....	4,381
56.5	Lovett station.....	4,372

Miles from Second Narrows	PACIFIC GREAT EASTERN RAILWAY (Under construction)	
	Vancouver, Pacific Great Eastern datum.....	—96.07
0.0	Second narrows, Burrard inlet, high water.....	7.20
1.0	Lynn creek, high water.....	7.20
5.7	Capilano creek, East branch, water.....	8
6.0	Capilano creek, West branch, water.....	8
11.1	Cypress creek, high water, 78; low water.....	75
12.6	Point Atkinson summit.....	208
15.7	Grade.....	170
32.7	South Valley river, high water.....	21
36.1	Britannia creek, water.....	35
41.4	Squamish wharf, high water, 8; wharf.....	13
42.7	Squamish station.....	14
45.8	Mamaquum station.....	31
46.3	Mamaquum river, water.....	27
48.9	Brackendale station.....	81
51.4	Chiki river, water.....	165

Miles from
Second NarrowsPACIFIC GREAT EASTERN RAILWAY
(Under construction)Elevation
above mean
sea level

51.4	Chiki station	176
53.5	Cheakamus station	190
57.2	Swift creek, high water, 379; low water	367
60.8	Cheakamus river, high water, 767; low water, 744; rail	836
61.7	Cheakamus river, high water, 911; low water	893
62.4	Watson station	975
64.0	Stony creek, water	1,131
65.1	Cheakamus river, high water, 1,168; low water	1,151
65.9	Cypress creek, high water, 1,211; low water	1,202
66.8	Daisy lake	1,297
68.7	Olive creek, water	1,388
69.3	Brandywine creek (falls 170 ft. high, 450 ft. north of line), high water, 1,504; low water	1,496
69.7	Brew station	1,540
71.6	McGuire station	1,732
72.3	North fork Cheakamus river, high water, 1,654; low water	1,646
75.5	Millar creek, high water, 1,950; low water	1,946
76.1	Millar creek, 2nd crossing, high water, 1,971; low water	1,968
77.5	Alpha lake, water	2,070
78.2	Nita lake, water	2,084
78.8	Mons station	2,103
79.0	Alta lake, water	2,097
80.3	Alta Lake summit, grade	2,105
80.4	Summit creek, high water, 2,097; low water	2,080
80.6	21-mile creek, high water, 2,095; low water	2,092
80.7	21-mile creek, 2nd crossing, high water, 2,089; low water	2,088
81.5	Creek, high water, 2,093; low water	2,091
82.3	Fitzsimmons creek, high water, 2,083; low water	2,081
84.1	Green lake, high water, 2,081; low water	2,078
85.3	Wedge Mountain creek, high water, 2,021; low water	2,016
85.9	Green river, high water, 1,959; low water	1,954
86.2	Rethel station	1,932
90.2	Soo river, high water, 1,544; low water, 1,536; rail	1,668
94.1	Six-mile creek, high water, 1,169; low water	1,161
94.6	Tisdale station	1,127
98.9	One-mile creek, high water, 715; low water	701
99.1	Pemberton station	699
100.1	Lillooet river, high water, 689; low water	680
103.2	Grade	678
106.8	Owl creek, water	872
107.1	Birkenhead river, water	919
108.7	Spetch station	1,045
110.7	Branch of Birkenhead river, high water, 1,072; low water	1,069
116.8	Grade, summit	1,619
118.0	Summit lake, water	1,575
118.1	Birken station	1,579
118.4	Anderson creek, water	1,548
123.1	Anderson creek, 2nd crossing, water	1,230
126.5	Cedar creek, water	957
127.4	D'Arcy station	891
133.3	McGillivray creek, water	854
134.8	Marne station	871
135.0	Anderson lake, high water, 850; low water	846
135.3	Roaring creek, water	872
143.2	Portage river, high water, 815; low water	812
146.6	Shalath station	820
150.0	Seton lake, water	777

Miles from
Second Narrows

PACIFIC GREAT EASTERN RAILWAY
(Under construction)

Elevation
above mean
sea level

153.2	Retaskit station.....	820
159.8	Lake creek, high water, 764; low water.....	755
159.9	Cayoosh creek, high water, 757; low water.....	751
161.6	Lillooet station.....	740
162.4	Fraser river, high water (1913), 641; low water (1913), 619; extreme high water (1894), 650; rail.....	704
164.0	Grade.....	754
173.1	Fountain creek, water.....	1,038
174.5	11-mile creek, water.....	1,231
177.3	14-mile creek, water, 1,395; grade.....	1,648
181.4	18-mile creek, water.....	1,829
184.1	Pavilion creek, water.....	2,167
195.2	Pear lake, water.....	3,358
196.4	Kelly creek, water.....	3,480
197.0	Kelly lake, water.....	3,503
197.7	Summit.....	3,517
208.5	Clinton creek, water.....	3,041
212.3	51-mile creek, water.....	3,132
218.2	57-mile creek, water.....	3,336
220.9	59-mile creek, water.....	3,494
222.0	61-mile or Chasm creek, water.....	3,492
223.6	Lake, water.....	3,579
235.8	Lake, water.....	3,547
236.4	Lake, water.....	3,560
236.7	Green lake, water.....	3,428
277.8	Lake, water.....	3,586
238.9	83-mile creek, water.....	3,586
240.1	Lake, water.....	3,661
240.6	Lake, water.....	3,670
245.2	Creek, water.....	3,808
246.7	Horse lake summit.....	3,842
247.5	Loon lake, water.....	3,825
248.4	Gull lake, water.....	3,814
248.9	Creek, water.....	3,854
250.5	Lake, water.....	3,855
252.7	Creek, water.....	3,730
255.6	Creek, water.....	3,617
258.2	Creek, water.....	3,446
264.5	Little Bridge creek.....	3,217
282 to 292	Lac la Hache, water.....	2,649
296 to 298	130-mile lake, water.....	2,578
322.0	Williams Lake creek, water.....	1,844
335.8	Whiskey creek, water.....	2,028
336.5	Grade.....	2,067
339.8	Deep creek, water.....	1,621
343.3	Soda creek, by levels from south, 1,740; by levels from north ..	1,753
355.0	Grade.....	1,593
365.5	4-mile creek, water.....	1,646
366.2	6-mile creek, water.....	1,721
371.4	Stony creek, water.....	1,715
373.4	Australian creek, water.....	1,612
380.0	Grade opposite mouth of Deserter river	1,845
383.5	South fork Sister creek, water.....	1,805
383.6	North fork Sister creek, water.....	1,786
394.9	Dragon creek, water.....	1,612
397.3	Quesnel river, high water, 1,573; low water.....	1,563
399.5	4-mile creek, water.....	1,893

Miles from
Second Narrows

PACIFIC GREAT EASTERN RAILWAY
(Under construction)

Elevation
above mean
sea level

401.4	Grade.....	2,066
404.5	Ten-mile creek (800 ft. east from line), water.....	2,314
405.0	Summit, grade.....	2,408
408.6	Camp lake (500 ft. west from line), water.....	2,310
417.4	Cottonwood river, high water, 1,793; low water.....	1,786
419.2	Alder creek, water.....	2,053
421.5	North fork Cottonwood river, high water, 2,070; low water.....	2,064
429.6	Meadow creek, high water, 2,167; low water.....	2,165
439.5	Cañon creek, high water, 1,881; low water.....	1,881
439.6	Grade, water.....	932
440.3	Hixon creek, water, 1,948; rail.....	
441.0	Small creek, water.....	1,948
445.3	Grade.....	1,948
450.1	Small lake, water.....	2,231
451.6	Camp creek, water.....	2,146
457.1	Stone creek, water.....	2,094
462.6	Red Rock creek, water.....	1,999
466.1	12-mile creek, water.....	2,050
470.9	6-mile creek, water.....	2,025
471.8	Beaver creek, water.....	1,938
481.4	Prince George, junction with Grand Trunk Pacific Ry., main line	1,874
		1,867

Miles from
Halifax

HALIFAX AND SOUTHWESTERN RAILWAY

Elevation
above mean
sea level

0.0	Halifax station.....	59
0.8	Richmond ".....	20.0
1.7	Intercolonial junction, with Intercolonial railway, main line....	28.0
6.9	Summit.....	316
7.6	Beechville station.....	282.9
9.0	Governor lake, water.....	235
10.1	Nine-mile river, water (July 30, 1913), 212; rail.....	227.7
10.6	Bowser station.....	244.1
12.4	Narrows of Perry lake, water, 298; rail.....	304
14.3	Five-island lake, water (July 30, 1913), 243; rail.....	250
15.3	Hubley station.....	287.4
18.2	Eastern lake, water, 196; rail.....	204
19.8	French Village station.....	79.1
20.4	Northeast river, water (Aug. 5, 1913), 70; rail.....	84.7
21.8	Indian river, water, 85; rail.....	95.4
23.3	St. Margaret Bay station.....	57.2
24.1	St. Margaret station.....	100
26.0	Boutilier station.....	30.8
27.5	Ingram river, water (Aug. 7, 1913), 21; rail.....	34.4
28.5	Ingram Port station.....	33.6
32.2	Summit.....	85
34.4	Hubbard river, water (Aug. 12, 1913), 21; rail.....	40.8
34.8	Hubbard station.....	68.3
37.2	Summit.....	135
40.3	Little East river, water, 90; rail.....	96
42.6	East River station.....	56.1
43.3	East river, water (Aug. 16, 1913), 35; rail.....	44.1
45.3	Summit.....	100
48.1	Henneberry Lake outlet, water, 20; rail.....	41
48.9	East Chester station.....	91.3
49.7	Summit.....	105
51.0	Chester station.....	46.1
53.0	Depression.....	29
54.6	Middle river, water (Aug. 19, 1913), 24; rail.....	43.4
56.7	Chester Basin station.....	75.8
57.4	Summit.....	80
57.7	Gold river, low water, 11; high water, 18; rail.....	61
60.3	Western Shore station.....	54.2
64.0	Martin River station.....	56.5
64.3	Martin river, water.....	35
64.8	The Narrows, rail.....	16
65.2	Depression.....	12
67.8	Summit.....	97
68.5	Mushamush river, water, 19; rail.....	65
69.8	Mahone junction, with spur to Lunenburg.....	84.9
76.8	Lunenburg station.....	30
71.0	Blockhouse station.....	181.6
74.5	Maitland station.....	206.7
80.7	Bridgewater station.....	10.9
81.8	Bridgewater junction, with Middleton and Port Wade branch....	48
89.1	Conquerall station.....	206.1
92.1	Italy Cross station.....	201.3
99.0	County Line station.....	120.0
103.3	Medway station.....	24.6
110.3	Brooklyn station.....	30.4

Miles from
Halifax

HALIFAX AND SOUTHWESTERN RAILWAY

Elevation
above mean
sea level

111.9	Liverpool station	10.4
117.1	Mersey river (tidewater), rail	17.9
119.7	Hunt Point station	73.0
124.3	Port Mouton "	59.9
128.5	Broad river, water, 179; rail	189
130.5	Summit	337
131.9	Mitchell brook, water (Oct. 2, 1913), 226; rail	236.6
133.4	Wilkins station	215.3
137.1	Tom Tidney brook, water (Oct. 3, 1913), 95; rail	105.4
139.5	Tom Tidney brook, water (Oct. 3, 1913), 63; rail	74.3
140.3	Sable river (tidewater), rail	19
140.7	Sable River station	15.3
147.2	Lockeport station	19.6
149.0	East river, bed, 18; rail	32
152.0	Summit	169
154.2	Ogden brook, water, 8; rail	17
154.5	East Jordan station	15.3
156.6	Jordan river (tidewater), rail	13
157.1	Jordan Falls station	16.0
158.4	Purney brook, water (Oct. 11, 1913), 44; high water (Oct. 12, 1903), 46; rail	55.1
162.5	Shelburne station	71.4
163.1	Sand Point "	13
169.4	Birchtown "	11.3
174.1	Gunning Cove station	10.6
177.7	Roseway "	37.4
182.5	Greenwood "	25.2
185.4	Port Saxon "	25.9
187.6	Port Clyde "	21.7
194.8	Barrington "	19.9
198.2	Barrington Passage station	10.3
200.9	Atwood Brook "	21.1
204.0	Shag Harbor "	57.7
206.5	Woods Harbour "	38.0
210.2	Upper Woods Harbour station	10
211.9	Summit, ground, 71; rail	64
213.4	Lower East Pubnico station	11
216.0	D'Entremont station	11
217.6	East Pubnico station	14
220.3	Pubnico station	10
221.6	Summit, ground, 89; rail	74
223.9	Lower Argyle station	66
226.3	Central Argyle "	40
229.3	Argyle station	10
231.8	Summit	79
234.8	Belleville station	53
237.6	Tusket station	54
239.8	Pleasant Lake station	16
241.3	Ferry Road "	54
241.7	Summit, ground, 77; rail	74
243.4	Arcadia station	23
245.6	Summit, ground, 124; rail	116
248.3	Yarmouth station	12

Miles from
Bridgewater
Junction

HALIFAX AND SOUTHWESTERN RAILWAY— MIDDLETON AND PORT WADE BRANCH

Elevation
above mean
sea level

0.0	Bridgewater junction, with main line, 81.6 miles from Halifax...	48
1.6	Cook brook, bed, 56; rail.....	62
7.3	Northfield station.....	114
9.9	Riversdale station.....	123
13.1	Northfield road crossing.....	164
14.1	Indian brook, bed, 178; rail.....	199
14.3	New Germany junction, with Caledonia branch.....	237
15.4	New Germany station.....	258
18.4	Lahave river, bed, 198; rail.....	215
20.1	Bog brook, bed, 283; rail.....	287
22.1	Cherryfield station.....	344
26.1	Springfield ".....	549
28.1	Ridgeroad ".....	587
32.9	Dalhousie ".....	645
33.2	Summit.....	624
37.2	Nictaux river, water, 567; rail.....	576
43.7	Albany station.....	571
45.7	Alpena ".....	531
51.0	Nictaux ".....	150
53.6	Annapolis river, bed, 58; rail.....	85
54.5	Dominion Atlantic switch.....	70.5
56.0	Middleton, junction with Canadian Pacific (Dominion Atlantic) railway.....	70
59.0	Upper Clarence station.....	80
60.2	Fitch road.....	87
61.3	Elliott station.....	104
63.8	Summit.....	205
64.4	Clarence station.....	179
69.9	Bridgetown station.....	35
73.2	Upper Granville station.....	38
74.1	Summit.....	66
76.0	Belleisle station.....	24
78.0	Summit.....	46
78.4	Granville Centre station.....	23
83.5	Granville Ferry station.....	80
85.3	Depression.....	16
86.7	Bath station.....	42
89.1	Karsdale station.....	32
90.9	Porter station.....	35
93.5	Summit.....	66
95.6	Port Wade station.....	31

Miles from
New Germany

HALIFAX AND SOUTHWESTERN RAILWAY— CALEDONIA BRANCH

0.0	New Germany junction, with Middleton and Port Wade branch ..	237
5.1	Hemford station.....	332
12.3	Pleasant River station.....	293
14.9	Brookfield Mines station.....	328
18.6	South Brookfield station.....	278
22.1	Caledonia station.....	310

Miles from
Inverness Junc.

INVERNESS AND RICHMOND RAILWAY

0.0	Inverness Junction, with Intercolonial Ry., Cape Breton branch ..	28
4.5	Port Hastings station.....	8
12.1	Creignish, road crossing.....	82

Miles from
Inverness Junc.

INVERNESS AND RICHMOND RAILWAY

Elevations
above mean
sea level

12.7	Summit.....	110
15.7	Craigmore station.....	75
17.7	Long Point station.....	39
20.4	Campbell Point station.....	25
25.0	Judique station.....	8
27.5	Maryville station.....	6
30.5	Summit.....	110
32.5	Port Hood station.....	65
36.3	Summit, ground, 234; rail.....	221
37.2	Glencoe station.....	213
39.6	Southwest Mabou station.....	83
44.5	Mabou station.....	46
45.7	Mabou river, tidewater, rail.....	8
47.0	Glendyer station.....	14
50.8	Summit.....	244
51.8	Glen Dhu or Alexander station.....	216
55.3	Black River station.....	201
56.0	Lake Ainslie, water.....	188
56.6	Strathlorne station (nearly).....	195
57.3	Summit, ground, 204; rail.....	199
59.4	Inverness station.....	115
64.1	Broad Cove, end of profile.....	52

Miles from
Quebec

QUEBEC AND LAKE ST. JOHN RAILWAY

0.0	Quebec station.....	18
0.3	River St. Charles, high water, 9.5; rail.....	24
0.6	Limoilou, junction with Quebec, Montmorency and Charlevoix railway.....	20
2.0	Hedleyville, junction with Canadian Northern Ry., Quebec and Montreal.....	47
3.5	Charlesbourg station.....	118
5.9	Charlesbourg West station.....	282
6.8	Rivière des Mères, bed, 327; rail.....	347
8.5	Indian Lorette station.....	452
8.7	River St. Charles, bed, 444; rail.....	460
12.4	White-house station.....	538
16.5	Valcartier station.....	556
18.1	Summit, rail.....	581
19.0	Jacques Cartier river, bed, 489; rail.....	556
21.0	Ste. Catherine station.....	547
22.8	Lake St. Joseph station.....	534
22.9	St. Joseph brook, bed, 514; rail.....	534
24.9	Summit, ground 636; rail.....	632
25.6	Lake Sergent East station.....	587
27.2	Stream into lake Sergent, water, 515; rail.....	526
27.7	Lake Sergent station.....	550
29.9	Portneuf river, bed, 489; rail.....	513
30.2	Bourg Louis station.....	516
30.7	Summit, rail.....	521
34.3	St. Raymond station.....	452
34.9	River St. Anne, high water, 441; low water, 428; bed, 424; rail.....	446
36.9	Summit.....	562
40.5	River Rondeau, water, 473; bed, 466; rail.....	490
42.2	Allens Mills station.....	564
43.0	Jacquot river, water, 551; bed, 446; rail.....	561

Miles from
Quebec

QUEBEC AND LAKE ST. JOHN RAILWAY

Elevation
above mean
sea level

47.4	Lac Simon siding (summit).....	832
	Lac Simon, water.....	581
50.3	Black river, water, 631; rail.....	643
53.2	Black River siding (summit).....	899
56.5	Rivière à Pierre, junction with Laurentian branch.....	706
56.6	Rivière à Pierre, water, 691; rail.....	698
60.0	Northwest Branch river, water, 733; rail.....	741
64.1	Talbot station.....	970
64.4	Summit, rail.....	978
69.2	Laurentides station.....	712
75.5	Meguic station.....	837
75.9	Meguic river, water, 818; rail.....	832
78.5	La Tuque junction, with La Tuque branch.....	891
85.0	Beaudet station.....	882
86.4	Batiscan river, water, 959; bed, 946; rail.....	981
92.7	Rivière aux Rognons, bed, 1,193; rail.....	1,202
92.8	Stadacona station.....	1,204
96.3	Summit, ground, 1,253; rail.....	1,245
100.9	Pearl Lake station.....	1,132
101.3	Pearl lake, water.....	1,125
105.9	'Beaver Pond' summit, ground, 1,215; rail.....	1,214
106.9	Triton Club station.....	1,172
107.1	North branch Batiscan river, high water, 1,146; low water, 1,139; bed, 1,136; rail.....	1,165
109.5	Northeast branch Batiscan river, water, 1,186; rail.....	1,180
111.9	Lake Edward station.....	1,125
112.1	Horn creek, water, 1,187; bed, 1,182; rail.....	1,195
113.1	Lake Edward, water.....	1,186
117.9	Caribou lake, water.....	1,292
121.4	Summit, between Batiscan and St. Maurice waters, ground, 1,463; rail.....	1,457
122.4	Mirror lake, water.....	1,423
124.2	Summit siding (highest point on the line), rail.....	1,495
133.6	Kiskisink station.....	1,306
133.7	Kiskisink river, high water, 1,301; low water, 1,299; rail.....	1,307
134.7	Cedar lake, water.....	1,280
137.6	Summit, between St. Maurice and lake St. John waters, ground and rail.....	1,431
139.2	Joseph river, bed, 1,389; rail.....	1,397
142.1	Joseph Louis river, bed, 1,353; rail.....	1,364
145.6	Lake Kwakwakamaksis, water, 1,307; rail.....	1,310
146.2	Summit, ground, 1,332; rail.....	1,330
149.4	Lac Gros Visons, water.....	1,280
149.6	Noisy river, bed, 1,268; rail.....	1,275
149.6	Commissioner Lake station.....	1,275
159.3	Lake Bouchette station.....	1,136
159.5	Noisy river, bed, 1,126; rail.....	1,137
160.4	Lake Ouatichuan, water.....	1,017
163.1	Dablon station.....	980
164.1	Bilodeau station.....	984
169.0	De Quen station.....	834
170.0	Lac à Bellay, water.....	815
176.0	Chambord, junction with Roberval branch.....	550
182.2	Metabetchuan river, high water, 335; low water, 312; rail.....	359
185.7	Metabetchuan station.....	373
186.9	Summit, ground, 428; rail.....	425
187.0	River Kooshpeganish, low water, 320; bed, 318; rail.....	344

Miles from Quebec	QUEBEC AND LAKE ST. JOHN RAILWAY	Elevation above mean sea level
188.4	Summit, ground, 405; rail.....	392
190.9	Belle Rivière, high water, 337; low water, 317; bed, 312; rail.....	350
191.0	St. Gédéon station.....	353
197.5	River Bédard, water, 492; bed, 479; rail.....	522
197.7	Hébertville station.....	515
205.7	River Dorval, bed, 515; rail.....	523
208.8	Summit, rail.....	550
209.1	River Brière, bed, 532; rail.....	542
210.0	Samson station.....	546
211.0	Brière lake, water.....	578
211.5	Summit, ground and rail.....	596
212.8	Lac des Chasseurs, water.....	533
216.9	Rivière aux Sables, high water, 452; low water, 447; bed, 438; rail.....	480
217.0	Jonquières station.....	484
221.4	Rivière Deschênes, bed, 342; rail.....	368
225.5	Chicoutimi river, water, 34; rail.....	89
227.0	Chicoutimi station.....	19
	Saguenay river, flood of 1886, 16.2; ordinary high water, spring tides, 10.5; ordinary low water, spring tides, -10.5; ordinary low water, neap tides.....	-8.6
	QUEBEC AND LAKE ST. JOHN RAILWAY—ROBERVAL BRANCH	
Miles from Quebec		
176.0	Chambord, junction with main line.....	550
183.7	Ouïatchuan river, bed, 322; rail.....	344
184.3	Ouïatchuan Falls station.....	346
189.3	Roberval station.....	352
	Lake St. John, high water, 341; low water.....	314
	Pointe aux Trembles church.....	452
	QUEBEC AND LAKE ST. JOHN RAILWAY—ROBERVAL EXTENSION (Under Construction)	
Miles from Roberval		
0.0	Roberval station.....	352
1.7	Junction with Quebec and Lake St. John railway.....	342
4.9	Pointe Bleue station.....	354
8.6	Rivière à la Chasse, rail.....	332
10.4	St. Prime station.....	346
10.7	Iroquois river, rail.....	342
14.9	Rivière à l'Ours, rail.....	345
17.7	St. Félicien station.....	362
18.3	Boivin river, rail.....	361
21.9	Salmon river, rail.....	367
23.4	Desmeules station.....	401
27.6	Chute à l'Ours station.....	480
30.0	Dufferin station.....	540
31.4	End of profile.....	558
	TRANS-CANADA RAILWAY (Projected)	
Miles from Roberval		
0.0	Roberval, junction with Quebec and Lake St. John railway.....	352
3.0	Summit.....	452
4.3	Stream, bed, 374; grade.....	409
8.0	Station ground.....	360

Miles from
RobervalTRANS-CANADA RAILWAY
(Projected)Elevation
above mean
sea level

8.9	Iroquois river, bed, 339; grade.....	352
12.1	Rivière à l'Ours, bed, 332; water (approx.), 345; grade.....	350
15.2	Boivin river, water (approx.), 348; grade.....	357
18.9	Salmon river, water (approx.), 382; grade.....	419
20.2	Stream, bed, 411; grade.....	422
22.5	" " 397; grade.....	422
27.3	" " 499; grade.....	521
30.4	Poplar river, water (approx.), 521; grade.....	545
34.0	Grade.....	582
35.8	Summit.....	635
40.0	Depression.....	590
42.2	Tunnel, grade.....	639
43.0	Rivière du Bran, water (approx.), 631; grade.....	640
49.0	Grade.....	706
52.5	Stream, bed, 703; grade.....	723
55.3	Stream, bed, 777; grade.....	790
57.7	Summit.....	890
60.1	Grade.....	890

Miles from
Rivière à PierreQUEBEC AND LAKE ST. JOHN RAILWAY—
LAURENTIAN BRANCH

0.0	Rivière à Pierre, junction with main line, 56.5 miles from Quebec..	706
3.1	Rivière à Pierre, water, 642; bed, 636; rail.....	652
5.2	Summit, ground, 737; rail.....	725
6.4	Discharge of Caribou lake, water, 608; bed, 604; rail.....	612
6.6	Lake Caribou station.....	611
8.9	Rousseau.....	513
9.7	Batiscan river, high water, 475; bed, 457; rail.....	487
12.1	Notre Dame station.....	551
14.3	Summit, ground, 636; rail.....	625
16.7	Lac aux Sables station.....	514
18.1	Rivière Propre, bed, 490; rail.....	521
20.9	River Tawachiche, bed, 529; rail.....	554
21.3	Hervey, junction with National Transcontinental railway.....	583
22.0	Reids Camp station.....	597
24.2	Road crossing.....	462
25.8	St. Thècle station.....	510
30.4	Summit, ground and rail.....	543
32.4	St. Tite station.....	465
33.3	Rivière des Envies, bed, 421; rail.....	467
39.8	Garneau, junction with Canadian Northern railway, Quebec and Montreal.....	444

Miles from
La Tuque Junc.QUEBEC AND LAKE ST. JOHN RAILWAY—LA TUQUE
BRANCH

0.0	La Tuque junction, with main line, 78.5 miles from Quebec.....	891
0.8	Batiscan river, water (Aug., 1904), 859; high water, 863; rail.....	888
3.1	Stream, bed, 989; rail.....	1,000
4.5	Jeannotte station.....	1,026
5.3	Bay of Jeannotte river, water, 1,010; rail.....	1,017
5.5	Vermilion river, bed, 1,010; rail.....	1,020
7.8	Stream, bed, 1,030; rail.....	1,044
10.5	Bay of Jeannotte river, water, 1,028; rail.....	1,052
10.7	Rivière au Lard, bed, 1,046; rail.....	1,066
11.0	Lac au Lard siding.....	1,066

Miles from QUEBEC AND LAKE ST. JOHN RAILWAY—LA TUQUE
La Tuque Junc. BRANCH

Elevation
above mean
sea level

11.9	Lac au Lard, water, 1,049; rail.....	1,081
12.0	Lac au Lard station.....	1,135
15.5	Le Moine lake, water, 1,124; rail.....	1,132
16.4	Tessier river, water, 1,115; rail.....	1,132
16.9	Lake Scott station.....	1,131
18.0	Water tank (summit).....	1,182
20.7	Little Bostonnais river, bed, 1,034; rail.....	1,064
23.3	L'Epervier river, water, 936; rail.....	965
26.5	Brunell creek, bed, 890; rail.....	905
29.6	Lake Wayagamak, water, 889; extreme high water, 894; rail.....	902
30.4	Wayagamak station.....	903
30.6	Little Bostonnais river, bed, 884; rail.....	894
34.6	Stream, bed, 668; rail.....	680
34.9	National Transcontinental Ry. crossing, N.T. Ry., rail, 640; Q. & L. St. J. Ry., rail.....	613
37.1	Little Bostonnais river, bed, 523; rail.....	554
38.6	La Tuque station.....	563
39.3	Engine shed.....	569

Miles from GREAT NORTHERN RAILWAY—STE. CATHERINE
Ste. Catherine TO GARNEAU (Projected)

0.0	Ste. Catherine, junction with Quebec and Lake St. John railway, 21.0 miles from Quebec.....	547
1.4	Discharge, lake St. Joseph, low water, 463; high water, 467; rail.....	536
8.7	Discharge, lake Sergent, low water, 349; high water, 354; rail.....	402
9.0	Portneuf river, low water, 347; high water, 351; rail.....	408
	Ste. Christine station ground.....	498
	St. Alban station ground.....	182
13.2	Summit.....	526
30.9	River St. Anne, low water, 102; high water, 106; rail.....	138
32.9	Rivière Blanche, low water, 97; high water, 103; rail.....	123
	St. Casimir station ground.....	117
39.1	Rivière Charest, high water, 155; low water, 150; rail.....	199
	St. F. station ground.....	281
46.0	Ba. river, low water, 315; high water, 331; rail.....	358
	St. Michel station ground.....	394
48.0	Rivière des Envies, high water, 365; low water, 352; rail.....	387
54.1	Rivière à la Tortue, high water, 420; rail.....	436
57.0	Summit.....	455
57.9	Garneau, junction with Canadian Northern Ry., Quebec and Mont- real.....	444

Miles from CANADIAN NORTHERN RAILWAY—QUEBEC AND
Quebec MONTREAL

0.0	Quebec station.....	18
0.5	St. Charles river, high water, 9.5; rail.....	24
2.0	Hedleyville, junction with Quebec and Lake St. John railway.....	47
4.4	St. Charles river, rail.....	46
5.6	Canadian Pacific Ry., Quebec branch, crossing.....	60
5.6	Loreve junction, with spur to Quebec bridge.....	60
10.7	Cap Rouge, junction with National Transcontinental railway.....	172.6
10.2	Cap Rouge river, water, 19; rail.....	40

CANADIAN NORTHERN RAILWAY

209

Miles from
QuebecCANADIAN NORTHERN RAILWAY—QUEBEC AND
MONTREALElevation
above mean
sea level

11.0	Cap Rouge station.....	40
14.6	Calvaire river, bed, 15; rail.....	20
17.0	St. Augustin station.....	24
23.0	Neuville station.....	31
25.6	Rivière aux Pommes, bed, 15; rail.....	21
29.7	Les Ecureuils station.....	20
31.4	Donnacona station.....	31
31.6	Jacques Cartier river, freshet, 18; low water, 10; rail.....	31
33.7	Cap Santé station.....	26
38.6	Portneuf river, high water, 18; bed, 10; rail.....	30
38.9	Portneuf station.....	30
42.0	Deschambault station.....	44
44.0	Belleisle river, bed, 83; rail.....	95
45.3	Lachevrotière station.....	103
45.7	Canadian Pacific Ry., Quebec branch, crossing.....	103
46.1	Lachevrotière river, bed, 78; rail.....	102
46.3	St. Marc station.....	115
51.3	St. Anne river, bed, 82; rail.....	115
51.7	Rivière Blanche, bed, 96; rail.....	115
52.1	St. Casimir station.....	115
57.6	Rivière Charest, bed, 193; rail.....	254
61.3	St. Prosper station.....	349
65.1	St. Stanislas station.....	353
65.9	Batiscan river, water (July, 1906), 310; rail.....	346
67.7	Rivière des Envies, high water (July, 1906), 347; rail.....	378
72.0	Prouxville station.....	431
73.2	Creek, water (Oct., 1906), 414; rail.....	433
73.8	Rivière à la Tortue, bed, 414; rail.....	433
75.3	Grade.....	452
76.0	Rivière à la Tortue, bed, 426; rail.....	438
78.3	Garneau, junction with Laurentian branch and Canadian Pacific railway, Piles branch.....	444
81.2	St. Maurice river, high water, 311; low water, 290; rail.....	335
81.9	Grand'mère station.....	364
85.5	Shawinigan junction, with Shawinigan Falls branch.....	463
88.1	Shawinigan Falls station.....	364
86.6	Shawinigan river, water, 384; rail.....	466
87.1	Glenada station.....	474
93.8	St. Boniface station.....	415
98.0	Yamachiche river, East branch, bed, 296; rail.....	375
101.1	Charette station.....	417
103.1	Rivière du Loup, water, 361; rail.....	488
105.9	St. Paulin station.....	548
113.3	Ste. Ursule Falls station.....	293
114.0	Maskinonge river, bed, 138; rail.....	309
116.1	St. Justin station.....	256
118.1	Bois Blanc ".....	199
119.5	Rivière Cachée, water, 139; rail.....	174
120.7	St. Barthélemi station.....	174
125.0	Chicot river, high water, 142; low water, 137; rail.....	192
126.2	St. Cuthbert station.....	196
128.5	St. Norbert station.....	178
130.7	St. Pierre station.....	172
133.2	Bayonne river, high water, 158; low water, 147; rail.....	174
133.4	Ste. Elizabeth station.....	174

Miles from (Quebec)	CANADIAN NORTHERN RAILWAY—QUEBEC AND MONTREAL	Elevation above mean sea level
135.9	Rivière Chaloupe, water, 166; rail	179
138.9	Canadian Pacific Ry., St. Gabriel branch, crossing	204
139.5	L'Assomption river, water, 182; rail	201
139.8	Joliette, junction with Joliette and Hawkesbury branch	201
142.2	St. Pierre river, water, 142; rail	155
144.1	St. Paul de Joliette station	137
144.5	Ouareau river, water, 86; rail	130
144.6	Crabtree Mills station	130
146.5	Ruisseau Vacher, water, 90; rail	119
146.8	Ste. Marie Salomée station	128
150.4	St. Jacques junction, with Rawdon branch	96
151.5	Rivière St. Esprit, water, 63; rail	84
152.2	L'Epiphanie station	78
152.5	Achigan river, water, 51; rail	78
153.6	Canadian Pacific railway, Quebec branch, crossing	72
155.3	L'Assomption station	69
160.0	St. Paul l'Ermite station	55
162.4	Charlemagne station	52
163.2	Rivière des Prairies, low water, 27; rail	58
163.9	Rivière des Prairies, low water, 28; rail	62
168.4	Pointe aux Trembles station	72
174.3	Maisonnette station	76
176.1	Montreal, Moreau St. station	78

Miles from St. Jacques Junc.	CANADIAN NORTHERN RAILWAY—RAWDON BRANCH	
0.00	St. Jacques junction, with Quebec and Montreal line, 150.4 miles from Quebec	96
4.06	St. George station	170
6.69	St. Jacques station	197
10.88	Rawdon junction, with Joliette and Hawkesbury branch	276
11.88	Cordon station	312
14.05	Hamilton station	369
15.62	Ouareau river, water, 340; rail	418
15.88	Rawdon station	424

Miles from Rawdon	CANADIAN NORTHERN RAILWAY—RAWDON BRANCH EXTENSION (Projected)	
0.0	Rawdon station	424
2.8	Ouareau river, water (Dec. 21, 1912), 497; bed, 470; rail	512
8.7	Ouareau river, water, (Dec. 10, 1912), 563; rail	596
13.0	Chertsey station	712
15.0	Ouareau river, water (Nov. 20, 1912), 727; rail	740
17.9	Perreault station	813
24.0	Capuchin dam, water above dam, 979; water below dam, 968; rail	1,021
29.6	La Mercie station	1,267
33.6	Lookout station	1,333
37.0	Lac Ouareau station	1,282
37.7	Lac Ouareau, water, 1,274; rail	1,279
40.3	Ouareau river, water, 1,274; bed, 1,269; rail	1,285
41.4	St. Donat station	1,287
41.6	Ouareau river, water (July 16, 1912), 1,284; rail	1,294
43.6	End of profile	1,290

CANADIAN NORTHERN RAILWAY—RAWDON BRANCH
EXTENSION—SUNDRY ELEVATIONSElevation
above mean
sea level

Archambault lake, Lussier township.....	1,284
Lac Tire, Lussier township.....	1,284
Pimbina lake, Lussier township.....	1,289
Prevost lake, ".....	1,289
Lac la Joie.....	1,289
Rat lakes.....	1,674
Lake Clare.....	1,665
Summit between Clare and Trappe-à-l'Ours lakes.....	1,769
Lac Trappe-à-l'Ours.....	1,751
Mount Clare (by aneroid).....	2,500
Lake Ouareau, Chilton tp.....	1,274
Lookout mountain, Chilton tp.....	2,300
Upper Rat lake (by aneroid).....	1,230
Lake Beaubien, Chilton tp.....	1,650

CANADIAN NORTHERN RAILWAY—JOLIETTE AND
HAWKESBURY BRANCHMiles from
Joliette

0.0	Joliette, junction with Quebec and Montreal line.....	201
5.7	Rouge river, bed, 170; rail.....	207
6.9	Montcalm station.....	228
7.3	Ouareau river, high water, 190; low water, 185; rail.....	220
9.7	Dugas station.....	265
11.0	Rawdon junction, with Rawdon branch.....	276
11.9	St. Alexis station.....	271
14.5	St. Julien station.....	268
14.7	Rivière St. Esprit, bed, 235; rail.....	265
15.7	La Fourche station (closed).....	251
15.8	Branch of Rivière St. Esprit, bed, 235; rail.....	251
17.5	Road crossing.....	289
18.7	St. Lin station.....	212
18.8	Little river, bed, 211; rail.....	228
25.4	New Glasgow station.....	243
25.5	Achigan river, water, 227; bed, 224; rail.....	241
27.7	St. Sophie station.....	247
27.9	River Jordan, water, 240; bed, 234; rail.....	248
32.6	Brook, high water, 225; low water, 220; rail.....	243
33.3	Montfort junction, Canadian Pacific Ry., Laurentian branch, crossing.....	247
33.9	St. Jérôme junction, with Montfort branch.....	217
34.3	North river, high water (1899).....	210
37.8	St. Canut station.....	229
38.8	North river, high water (1899).....	206
52.5	Lachute station.....	204
52.8	North river, high water (1899), 201; low water, 195; rail.....	209
54.9	Lachute junction, with Canadian Pacific Ry., Ottawa sub-division.....	246
56.2	Summit.....	252
57.1	St. Philippe station.....	237
64.9	Grenville.....	171
65.1	Ottawa river, high water, 122; extreme low water, 113; rail.....	169
66.7	Hawkesbury, junction with main line, 54.7 miles from Montreal.....	158

Miles from
St. Eustache
Junc.

CANADIAN NORTHERN RAILWAY—ST. EUSTACHE TO
ST. JEROME JUNCTION (*Projected*)

Elevation
above mean
sea level

0.0	St. Eustache junction, with main line 17.2 miles from Montreal...	93
1.2	St. Eustache station ground...	94
1.7	Rivière du Chêne, bed, 81; rail...	99
5.7	Rivière Petit Chicot, ice (Feb. 20, 1912), 138; rail...	153
6.5	Rivière Petit Chicot, ice (Feb. 20, 1912), 147; rail...	156
7.8	Ste. Augustine station ground...	184
8.6	Canadian Pacific railway, Ottawa subdivision, crossing...	220
10.3	Ste. Monique station...	233
13.3	Grade...	239
16.3	St. Jérôme junction, with Joliette and Hawkesbury branch and Montford branch...	217

Miles from
Montford Junc.

CANADIAN NORTHERN RAILWAY—MONTFORT
BRANCH

0.0	Montfort junction, Canadian Pacific Ry., Laurentian branch...	243
0.5	St. Jérôme junction, with Joliette and Hawkesbury branch...	217
3.2	St. Jérôme station...	311
9.3	Filion station...	505
12.4	Shawbridge station...	554
16.6	St. Sauveur station...	726
18.0	Summit...	827
19.3	Christieville station...	778
20.4	Cimon river, bed, 730; rail...	739
21.8	Morin Heights station...	812
25.4	Lac Chevreuil, water, 1,115; rail...	1,121
25.7	Lac Chevreuil station...	1,183
27.3	Montfort station...	1,258
28.2	Lac St. François Xavier, water, 1,231; rail...	1,236
30.8	Summit...	1,365
31.3	Leclerc Islands station...	1,309
32.1	Chapleau station...	1,222
34.7	Lake Wonish station...	981
35.0	Sixteen-island lake, water, 908; rail...	914
35.5	Sixteen-island Lake station...	939
35.8	Summit...	1,008
36.9	Pine Lake station...	971
36.9	Pine lake, water, 965; rail...	971
39.0	Larose station...	673
40.4	Pike creek, rail...	745
40.5	Weir station...	646
41.3	Batesville station...	605
42.3	Bevans Lake station...	612
44.4	Arundel station...	618
45.8	Huberdeau station...	636

Miles from
Huberdeau

CANADIAN NORTHERN RAILWAY—HUBERDEAU
EXTENSION (*Projected*)

0.0	Huberdeau station...	636
0.1	Rouge river, water (Apr. 9, 1912), 607; high water, 610; rail...	624
2.4	Summit, ground, 742; rail...	725
3.7	Rockaway station ground...	663
7.6	Creek, bed, 834; rail...	852
8.3	Summit, ground, 899; rail...	888
9.0	China Clay station ground...	850
12.0	St. Remi station ground...	701

Miles from Toronto	CANADIAN NORTHERN RAILWAY—TORONTO AND OTTAWA	Elevation above mean sea level
0.0	Toronto, Union station.....	254
5.6	East Don station.....	293
12.1	Grand Trunk Ry., Cobocok branch, crossing, G.T. Ry., rail, 572; C. N. Ry., rail.....	547
16.3	Malvern station.....	544
22.6	Cherrywood station.....	472
29.3	Greenburn station.....	470
35.2	Brooklin station.....	483
35.8	Grand Trunk Ry., Whitby and Lindsay branch, crossing.....	487
39.1	Oshawa station.....	473
48.0	Bowmanville station.....	521
53.3	Orono station.....	516
59.0	Starkville station.....	525
62.5	Osaca station.....	550
71.8	Grand Trunk Ry., Port Hope and Peterborough, crossing, G.T. Ry., rail, 312; C.N. Ry., rail.....	355
72.1	Port Hope station.....	355
78.4	Cobourg station.....	314
86.1	Grafton station.....	294
92.7	Colborne station.....	334
101.2	Brighton station.....	319
103.0	Grand Trunk Ry., main line, crossing, G.T. Ry., rail, 326; C.N. Ry., rail.....	300
110.6	Trenton, junction with Picton and Maynooth branch.....	263
116.5	Bayside station.....	310
118.6	Canadian Pacific Ry., Lake Ontario Shore line, crossing.....	322
121.0	Belleville, Union station.....	258
130.2	Shannonville station.....	252
139.8	Deseronto station.....	262
145.6	Napanee station.....	324
145.7	Grand Trunk Ry., main line, crossing.....	327
150.5	Strathcona station.....	318
152.4	Newburgh station.....	352
154.9	Camden East station.....	412
158.9	Yarker, junction with Bannockburn branch.....	462
159.1	Napanee river, water, 428; rail.....	464
165.2	Harrowsmith, junction with Canadian Pacific Ry., Kingston and Pembroke branch.....	491
169.5	Sydenham station.....	437
171.5	Sydenham lake, water, 430; rail.....	439
175.0	Summit.....	486
176.3	Perth Road station.....	465
180.1	Siding.....	413
184.1	Summit.....	491
185.0	Bedford Mills station.....	467
187.8	Chaffey's Locks station.....	447
188.2	Rideau canal, water, 403; low water (Dec., 1910), 401; rail.....	442
193.0	Elgin station.....	408
194.9	Brockville junction, with Brockville branch.....	421
198.9	Portland station.....	456
208.3	Lombardy station.....	429
214.7	Rideau canal, water, 398; rail.....	409
215.1	Smiths Falls station.....	406
216.0	Canadian Pacific Ry., Ontario and Quebec, crossing, C.P. Ry., rail, 426; C.N. Ry., rail.....	400
218.0	Summit.....	443
222.5	Nolan station.....	448

Miles from Toronto	CANADIAN NORTHERN RAILWAY—TORONTO AND OTTAWA	Elevation above mean sea level
229.5	Dwyer Hill station.....	377
237.7	Richmond station.....	312
240.3	Twin Elm station.....	312
243.4	Fallowfield station.....	309
246.8	Merivale station.....	304
249.7	Rideau, junction with main line, 117.4 miles from Montreal	289
250.3	Rideau river, water (Aug. 3, 1911), 243; rail	289
258.1	Ottawa, Central station	213.7

Miles from Brockville	CANADIAN NORTHERN RAILWAY—BROCKVILLE BRANCH—(BROCKVILLE, WESTPORT AND SAULT STE. MARIE RY.)	
0.00	Brockville station.....	257
1.21	Grand Trunk Ry., main line, crossing, G.T. Ry., rail, 282; C. N. Ry., rail.....	308
4.97	Lyn station.....	288
7.72	Secley station.....	343
8.73	East lake, water, 351; rail.....	355
9.36	Lee station.....	381
12.64	Forthton station.....	409
13.33	Glen Elbe station.....	371
17.53	Athens station.....	416
20.94	Yonge and Landsdowne town-line road (summit).....	440
24.00	Soperton station.....	362
26.32	Lyndhurst station.....	332
27.87	Delta station.....	310
32.93	Elgin station.....	417
33.40	Forfar station.....	433
33.90	Summit, ground, 444; rail.....	435
34.80	Brockville junction, with Toronto and Ottawa line	421
36.52	Crosby station.....	406
37.00	Mud lake, water	403
39.70	Newboro station.....	432
40.07	Rideau canal, water, 408; rail	431
43.00	Summit, ground, 467; rail.....	452
43.45	Westport station.....	444
	“ public school, first stone step, main entrance	438.8

Miles from Yarker	CANADIAN NORTHERN RAILWAY—BANNOCKBURN BRANCH—(BAY OF QUINTE RAILWAY)	
0.0	Yarker, junction with Toronto and Ottawa line, 158.9 miles from Toronto.....	462
1.6	Galbraith station.....	501
3.5	Varty lake, water, 463; rail.....	470
4.4	Moscow station.....	468
6.7	Mud lake, water, 448; rail.....	453
6.9	Mud Lake station.....	453
8.5	Enterprise station.....	483
9.9	Canadian Pacific Ry., Lake Ontario Shore line, crossing, C.P. Ry., rail, 515; C. N. Ry., rail.....	539
10.5	Wilson station.....	555
14.2	Salmon river, water, 504; rail.....	512
14.6	Tamworth station.....	515

Miles from Yarker	CANADIAN NORTHERN RAILWAY—BANNOCKBURN BRANCH—(BAY OF QUINTE RAILWAY)	Elevation above mean sea level
15.9	Summit, ground, 593; rail.....	547
17.1	Erinsville station.....	549
18.6	White lake, water, 540; rail.....	548
21.2	Marlbank station.....	537
24.6	Goose brook, bed, 507; rail.....	518
26.9	Larkins station.....	551
30.9	Moirs river, east bridge, bed, 455; rail.....	470
31.0	Stoco station.....	470
32.6	Moirs river, west bridge, bed, 454; rail.....	469
32.8	Stoco lake, water.....	462
33.8	Tweed, junction with Canadian Pacific Ry., Ontario and Quebec, 206.4 miles from Montreal.....	475
35.5	Moirs river, water, 475; rail.....	481
37.8	Moirs river, water, 494; rail.....	502
39.3	Actinolite station.....	535
44.7	Black creek, water, 623; rail.....	631
45.8	Queensboro station.....	631
48.8	Allan station.....	771
52.4	Summit.....	836
53.2	Bannockburn, junction with Picton and Maynooth branch.....	827

Miles from Picton	CANADIAN NORTHERN RAILWAY—PICKTON AND MAYNOOTH BRANCH—(CENTRAL ONTARIO RAILWAY)	
	Lake Ontario, mean water (1871-1899).....	245.8
0.0	Picton station.....	321
4.2	Bloomfield station.....	259
7.6	Hallowell ".....	252
10.9	Wellington ".....	303
12.6	Summit.....	336
14.9	Niles Corners station.....	311
15.9	Hillier station.....	295
16.5	Summit.....	313
19.4	Consecon lake, water, 262; rail.....	268
21.3	Consecon station.....	254
25.6	Weller Bay station.....	261
27.0	Murray canal, water (lake Ontario), 245.8; rail.....	255.6
30.6	Trenton, junction with Toronto and Ottawa line.....	256.4
31.4	Canadian Pacific Ry., Lake Ontario Shore line, crossing, C.P. Ry., rail, 304; C. N. Ry., rail.....	261
32.2	Trenton junction, Grand Trunk Ry., main line, crossing, rail, 286; C. N. Ry., rail.....	263.1
37.9	Cold brook, water, 358; rail.....	366.2
38.5	Frankford station.....	369.9
43.5	Trent river, water, 364; rail.....	381.2
43.7	Trent canal, water, 374; rail.....	381.7
43.8	Glen Ross station.....	386.2
46.0	Anson, Grand Trunk Ry., Belleville and Midland, crossing.....	396.9
47.8	Summit.....	453
49.7	Squire brook, bed, 417; rail.....	426
50.5	Rawdon station.....	447
53.4	Springbrook station.....	551
55.6	Central Ontario junction, with Canadian Pacific Ry., Ontario and Quebec, 224.3 miles from Montreal.....	597
56.4	Summit.....	623
59.7	Marmora junction, with Wariston branch.....	596
61.1	Marmora station.....	592

Miles from Picton	CANADIAN NORTHERN RAILWAY—PICKTON AND MAYNOOTH BRANCH—(CENTRAL ONTARIO RAILWAY)	Elevation above mean sea level
64.7	Summit.....	725
66.9	Moirs river, bed, 706; rail.....	716
67.0	Malone station.....	716
71.3	Eldorado ".....	786
76.1	Bannockburn, junction with Bannockburn branch.....	827
76.9	Moirs river, bed, 834; rail.....	842
80.7	Millbridge station.....	942
82.3	Jordan brook, bed, 947; rail.....	955
87.3	Summit.....	1,022
90.3	Gilmour station.....	1,016
90.9	Beaver creek, water, 993; rail.....	1,001
93.2	St. Olga station (summit).....	1,096
93.9	Bass creek, water, 1,035; rail.....	1,041
96.8	Summit.....	1,165
96.9	Ormsby junction, with Coehill branch.....	1,168
99.5	Ormsby station.....	1,144
104.2	Coehill station.....	1,053
98.5	Brinklow station.....	1,150
101.1	Woods Lake station.....	1,151
102.3	Egan creek, water, 1,090; rail.....	1,100
103.8	Egan Creek station.....	1,093
105.2	Turrit station.....	1,096
107.2	Summit, rail.....	1,178
108.7	Bessemer junction, with Bessemer and Barrys Bay railway.....	1,086
109.4	L'Amable station.....	1,097
110.4	L'Amable creek, water, 1,010; rail.....	1,021
112.8	Bronson station.....	1,075
114.7	Hastings Road crossing.....	1,082
116.5	Bancroft station.....	1,072
117.0	York river, water above Bancroft dam.....	1,060
119.0	York River, junction with Irondale branch.....	1,102
120.3	Bird Creek station.....	1,112
126.4	Hybla station.....	1,340
132.3	Maynooth station.....	1,295

CANADIAN NORTHERN RAILWAY—WHITNEY
EXTENSION
(Projected)

Miles from Picton		
132.3	Maynooth station.....	1,295
133.0	Papineau creek, bed 1,248; grade.....	1,261
133.6	Hastings Road crossing, ground, 1,300; grade.....	1,290
137.1	Summit, grade.....	1,319
140.1	Lake St. Peter siding.....	1,318
140.4	Deer creek, bed, 1,304; grade.....	1,321
143.8	McConnell station ground.....	1,433
148.2	Wallace ".....	1,498
152.8	Warwick lake, high water, 1,452; grade.....	1,454
155.9	Hay lake, high water, 1,333; dam, 1,333; grade.....	1,334
158.4	Hay creek, still-water at head of rapids.....	1,301
159.0	" foot of rapids, water, 1,279; grade.....	1,315
160.6	Madawaska river, high water, 1,262; grade.....	1,272
160.7	Whitney, junction with Grand Trunk Ry., Ottawa division, 278.9 miles from Alburgh junction.....	1,268

CANADIAN NORTHERN RAILWAY

217

Miles from
Marmora Junc.CANADIAN NORTHERN RAILWAY—
WARISTON BRANCHElevation
above mean
sea level

0-00	Marmora Junction , with Picton and Maynooth branch, 59.7 miles from Picton	596
2-67	Marmora village, Madoc street	597
2-81	Tail-race, water, 591; rail	600
4-20	Beaver brook, water, 594; rail	603
4-42	Road crossing, lot 14, con. IV, Marmora tp.	604
8-84	Summit, ground, 693; rail	689
8-88	Belmont and Marmora town-line	688
9-54	Wariston , end of track at line between lots 18 and 19, con. I, Belmont tp.	660

Miles from
Kinmount Junc.CANADIAN NORTHERN RAILWAY—IRONDALE
BRANCH

0-0	Kinmount junction , with Grand Trunk Ry., Haliburton branch, 35.80 miles from Lindsay	935
0-2	Burnt river, water, 919; rail	935
2-9	Conway station	955
4-9	Furnace Falls station	970
6-0	Burnt river, bed, 930; rail	956
8-3	Howland station	982
9-3	Irondale "	975
9-9	Burnt river, bed, 958; rail	976
10-9	Burnt river, bed, 969; rail	990
11-4	Maxwell station	1,017
13-9	Burnt river, water, 1,032; rail	1,038
16-9	Gooderham station	1,067
17-2	Burnt river, water, 1,064; rail	1,068
24-7	Tory Hill station	1,218
28-0	Monmouth Road station, about	1,252
28-9	Summit, rail	1,312
30-2	Wilberforce station	1,247
36-4	Mumford station	1,346
39-5	Highland Grove station	1,317
44-5	Baptiste lake, water	1,157
45-0	Baptiste Lake station	1,164
52-0	York River , junction with Picton and Maynooth branch, 119.0 miles from Picton	1,102

Miles from
Port SevernCANADIAN NORTHERN RAILWAY—PORT SEVERN AND
KINMOUNT (*Projected*)

0-0	Port Severn , road crossing	504
3-7	Severn river, water, 590; bed, 587; grade	505
6-1	Black creek, water	590
9-9	Black river, water	602
11-1	Canadian Pacific Ry., Toronto and Sudbury, crossing	633
13-3	Flooded lands	669
16-3	Brook, water	697
17-2	Lake, water	719
20-0	Canadian Northern railway, Toronto and Capreol (follows C.N. Ry. to 27.4 miles)	749
27-0	Washago, Canadian Northern and Grand Trunk crossing	725.2
30-3	Ground surface	749
33-7	Black river, water, 723; grade	736
35-5	Brook, water, 748; bed, 747; ground	751
38-9	Rainy lake, water, 790; bank	802
40-5	Ground	816

Miles from Port Severn CANADIAN NORTHERN RAILWAY—PORT SEVERN AND KINMOUNT (*Projected*) Elevation above mean sea level

40.9	Narrow pass, ground.....	823
43.8	Victoria road, in swamp.....	855
45.6	Head river, water, 837; bed, 833; ground.....	840
46.0	" " water, 861; bed, 858; ground.....	862
52.5	Brook, water, 897; ground.....	902
55.2	Summit, ground.....	949
55.9	Gull river, water, 879; ground.....	885
57.2	Ground.....	974
58.4	Brook, water, 928; ground.....	930
60.9	Summit, ground.....	1,013
61.9	Brook, water, 957; ground.....	963
63.1	Summit, ground.....	1,015
65.6	Kinmount junction, with Irondale branch and Grand Trunk Ry., Haliburton branch.....	935

Miles from North Toronto METROPOLITAN ELECTRIC RAILWAY

0.0	North Toronto, Canadian Pacific Ry. station.....	403.8
1.2	Davisville station.....	507
2.0	Summit.....	552
2.2	Eglinton station.....	534
3.2	Bedford Park station.....	539
4.3	Don river, water, 410; rail.....	427
4.6	York Mills station.....	466
5.7	Lansing.....	569
6.3	Willowdale.....	571
7.5	Newtonbrook station.....	620
8.5	Summit.....	642
9.5	Thornhill station.....	573
9.7	Branch of Don river, water, 520; rail.....	535
10.9	Langstaff station.....	621
13.6	Richmond Hill station.....	791
14.7	Elgin Mills station.....	786
16.8	Jefferson station.....	989
18.3	Schomberg and Aurora junction, with Schomberg and Aurora Electric railway.....	977
21.2	Grand Trunk Ry., Toronto and North Bay, crossing, G.T. Ry., rail, 929.1; M. E. Ry., rail.....	955
22.5	Aurora station.....	869
26.9	Newmarket station.....	825
27.0	Holland river, water, 758; rail.....	764
30.7	Sharon station.....	861
33.2	Queensville station.....	960
39.8	Muskallonge river, bed, 709; rail.....	723
40.9	Keswick station.....	730
42.1	Orchard Beach station.....	759
43.6	Roach Point station.....	752
44.5	Morton Park station.....	752
50.0	Jackson Point station.....	747
	Lake Simcoe, low water (Nov. 23, 1908), 717.5; flood (1912).....	721.1

Miles from S. & A. Junc. SCHOMBERG AND AURORA ELECTRIC RAILWAY

0.0	Schomberg and Aurora junction, with Metropolitan Electric Ry., 18.3 miles from Toronto.....	977
2.2	Grand Trunk Ry., Toronto and North Bay, crossing.....	979.4
3.0	Eversley station.....	993

Miles from
S. & A. Junc.

SCHOMBERG AND AURORA ELECTRIC RAILWAY

Elevation
above mean
sea level

5.2	Summit.....	1,090
7.1	Kettleby station.....	984
9.0	Lloydtown Road station.....	946
12.5	Creek, bed, 723; rail.....	732
14.5	Schomberg, Main street.....	744

TORONTO SUBURBAN RAILWAY—LAMBTON TO
GUELPH
(Under Construction)Miles from
Lambton

0.0	Lambton, east side of Humber river.....	394
0.6	Humber river, bed, 301; rail.....	380
1.8	Mimico creek, bed, 372; rail.....	386
1.9	Islington, Canadian Pacific Ry., Ontario and Quebec, crossing, C.P. Ry., rail, 403; Tor. Sub. Ry., rail.....	382
2.3	Islington, Dundas street.....	419
5.0	Etobicoke river, bed, 373; rail.....	384
5.1	Summerville station.....	384
6.0	Dixie creek, bed, 368; rail.....	383
7.0	Dixie station.....	380
8.0	Cooksville, Dundas street.....	391
9.4	Cooksville creek, bed, 413; rail.....	434
12.2	Summit, ground, 600; rail.....	595
14.1	East branch Credit river, bed, 527; rail.....	541
15.1	Meadowvale station.....	546
15.2	Credit river, bed, 537; high water, 543; rail.....	547
15.7	Canadian Pacific railway, Orangeville branch, crossing, C. P. Ry., rail, 567; Tor. Sub. Ry., rail.....	548
16.7	Churchville station.....	572
19.3	Huttonsville Road crossing.....	631
22.3	Norval station.....	737
23.2	West Credit river, bed, 690; rail.....	753
24.7	Summit.....	841
25.7	West Credit river, bed, 781; rail.....	814
25.9	Georgetown, Main street.....	828
26.6	Grand Trunk Ry., Hamilton and Allandale branch, crossing, G.T. Ry., rail, 874; Tor. Sub. Ry., rail.....	855
28.0	West branch Credit river, bed, 880; rail.....	922
29.2	Limehouse station.....	1,004
30.8	Summit.....	1,118
31.3	Acton creek, bed, 1,069; rail.....	1,082
32.4	Summit.....	1,143
32.8	Acton, Main street.....	1,132
32.9	Acton creek, bed, 1,115; rail.....	1,131
33.4	Fairy lake, water, 1,135; rail.....	1,140
33.7	Summit, ground, 1,163; rail.....	1,154
35.5	Blue Springs creek, bed, 1,086; rail.....	1,092
40.2	Eden Mills station.....	1,059
41.2	Eramosa river, bed, 1,039; rail.....	1,049
43.3	Eramosa river, bed, 1,018; rail.....	1,029
44.5	Canadian Pacific Ry., Hamilton and Goderich branch, crossing.....	1,021
46.2	Guelph, Dundas street.....	1,025

Miles from Lambton	TORONTO SUBURBAN RAILWAY—GUELPH TO BERLIN (Projected)	Elevation above mean sea level
46.2	Guelph, Dundas street.....	1,025
46.7	Speed river, bed, 1,005; rail.....	1,013
48.6	Grand Trunk Ry., Southampton branch, crossing, 1.2 miles south of Guelph junction, G.T. Ry., rail, 1,069; Tor. Sub. Ry., rail.....	1,053
57.0	Breslau Road crossing.....	1,025
58.2	Grand river, bed, 956; rail.....	976
61.8	Berlin, King street.....	1,073
Miles from Weston	TORONTO SUBURBAN RAILWAY—WESTON TO WOODBRIDGE	
0.0	Weston, Church street.....	438
0.3	Grand Trunk Ry., main line, crossing, G.T. Ry., rail, 457; Tor. Sub. Ry., rail.....	441
1.6	Humber river, high water, 406; rail.....	419
2.7	West branch Humber river, high water, 434; rail.....	440
3.3	Thistle town station.....	454
4.4	Summit.....	520
6.7	Canadian Pacific Ry., Toronto and Sudbury, crossing, C.P. Ry., rail, 501; Tor. Sub. Ry., rail.....	452
7.8	Woodbridge, Pine street.....	475
Miles from N. St. C. & T. Junc.	NIAGARA, ST. CATHARINES AND TORONTO RAILWAY— MAIN LINE	
0.00	Niagara, St. Catharines and Toronto junction, with Michigan Central R.R., Niagara branch.....	580
1.35	Grand Trunk Ry., Allanburg branch, crossing.....	616
2.08	Summit, ground, 649; rail.....	647
6.62	Welland canal, water, 570; rail.....	595
6.95	Thorold junction, with Port Colborne branch.....	595
7.20	Thorold station.....	595
9.53	Merritton station.....	422
9.55	Grand Trunk Ry., Niagara Falls and Windsor, crossing, G.T. Ry., rail, 388; N. St. C. & T. Ry., rail.....	415
11.00	Queenston road crossing, rail.....	348
12.60	St. Catharines, Terminal station.....	360
Miles from Vineland	NIAGARA, ST. CATHARINES AND TORONTO RAILWAY (Abandoned Location)*	
0.00	Vineland, Clinton and Louth town-line, lot 1, con. IV, Clinton....	323
3.32	Grand Trunk Ry., quarry siding.....	306
4.42	Beamsville, Ontario street.....	310
8.78	Grimsby, Depot street.....	295
9.00	Forty-mile brook, high water, 272; rail.....	295
13.00	Winona, street crossing.....	296
18.82	Stoney creek, bed, 248; rail.....	271
23.42	Hamilton, Sherman avenue.....	283
24.64	" " Grand Trunk Ry., Hamilton and Allandale branch, crossing.....	311
25.00	Hamilton, James street.....	320

*Follows close to right of way of the Hamilton, Grimsby and Beamsville Electric railway.

Miles from St. Catharines **NIAGARA, ST. CATHARINES AND TORONTO RAILWAY—
LAKE SHORE AND PORT DALHOUSIE BRANCHES** Elevation above mean sea level

0.0	St. Catharines, Terminal station.....	360
1.4	Old Welland canal, rail.....	286
5.0	Port Dalhousie station.....	251
1.0	St. Catharines, junction with main line.....	349
5.0	Port Weller station.....	282
7.0	McNab station.....	277
8.1	Town-line, between Grantham and Niagara.....	272
9.8	Creek Road crossing.....	273
13.1	Niagara-on-the-Lake, Queen street.....	284

Miles from Thorold **NIAGARA, ST. CATHARINES AND TORONTO RAILWAY—
PORT COLBORNE BRANCH**

0.0	Thorold junction, with main line.....	595
2.1	Beaver Dams, Cataract Power Co's pond, high water.....	555
6.0	Fonthill junction, with Thorold and Brantford line (projected).....	605
6.8	Fonthill station.....	646
7.0	Summit.....	649
10.9	Welland river, water, 563; rail.....	584
11.0	Welland station.....	586
11.9	Michigan Central R.R. crossing.....	587
13.8	Dainville, Grand Trunk railway, Loop line, crossing.....	586
18.2	Grand Trunk railway, Buffalo and Goderich, crossing.....	586
18.5	Port Colborne station.....	583

**NIAGARA, ST. CATHARINES AND TORONTO RAILWAY—
THOROLD TO BRANTFORD
(Projected)**

Miles from Fonthill Junc.		
0.0	Fonthill junction, with Port Colborne branch.....	605
3.9	Creek, water, 568; grade.....	618
4.5	Summit, rail.....	626
7.7	Depression.....	578
12.2	Toronto, Hamilton and Buffalo Ry. crossing.....	596
27.9	Buckhorn creek, bed, 602; grade.....	617
35.5	Grand Trunk Ry. crossing.....	643
35.8	Caledonia station.....	649
37.1	Summit.....	686
39.6	Little creek, bed, 618; grade.....	639
46.8	Fairchild creek, water (Aug. 24, 1905), 623; grade.....	644
49.6	Toronto, Hamilton and Buffalo Ry. crossing.....	714
49.7	Cainsville station.....	715
49.7	Hamilton and Brantford Ry. crossing.....	716
49.9	Brantford, Grand Trunk Ry. crossing.....	717
50.9	" Echo Place station.....	724

Miles from Fort Erie **NIAGARA, ST. CATHARINES AND TORONTO RAILWAY—
LUNDYS LANE BRANCH**

0.00	Fort Erie, Buffalo Ferry dock.....	579
0.60	Michigan Central R.R. crossing.....	579
1.20	Bridgeburg station.....	580
4.92	Michigan Central R.R. crossing.....	584
5.00	Ship Yards station.....	584

Miles from Fort Erie **NIAGARA, ST. CATHARINES AND TORONTO RAILWAY—** Elevation
LUNDYS LANE BRANCH above mean
 sea level

9.30	New Germany station.....	593
14.80	Lyons creek, bed, 563; grade.....	580
15.40	Welland river, water (Sept. 24, 1906), 567; grade.....	587
16.85	Michigan Central R.R. crossing.....	588
18.85	Lundys Lane station.....	657

Miles from Toronto **NIAGARA, ST. CATHARINES AND TORONTO RAILWAY—**
TORONTO AND THOROLD
(Projected)

0.0	Toronto, Yonge street.....	418
3.0	Davenport road, ground, 423; grade.....	435
3.1	Grand Trunk Ry., Toronto and North Bay, crossing, G.T. Ry., rail, 416; N. St. C. & T. Ry., grade.....	440
3.9	Canadian Pacific and Grand Trunk crossing, C.P. and G.T. Rys., rail, 407; N. St. C. & T. Ry., grade.....	431
5.9	Canadian Pacific Ry., Ontario and Quebec, crossing, C.P. Ry., rail, 399; N. St. C. & T. Ry., grade.....	374
6.1	Humber river, water, 290; low water, 286; grade.....	354
7.3	Mimico creek, water, 373; grade.....	400
7.9	Islington station.....	400
10.0	Summerville station.....	386
10.1	Hydro-Electric Power Commission's transmission line, grade.....	383
11.0	Etobicoke river, high water, 320; grade.....	366
13.9	Cooksville creek, high water, 317; grade.....	330
14.0	Cooksville station.....	328
15.2	Credit river, high water, 249; grade.....	317
17.0	Lorne Park station.....	329
23.1	Oakville station.....	329
23.3	Sixteen-mile creek, high water, 257; grade.....	334
24.1	Summit.....	347
27.8	Bronte creek, high water, 279; grade.....	343
28.0	Grand Trunk Ry., Toronto and Hamilton branch, crossing.....	348
28.2	Appleby station.....	348
33.0	Burlington station.....	336
33.3	Grand Trunk Ry., Hamilton and Allandale branch, crossing.....	336
36.9	Waterdown station.....	356
38.8	Desjardins canal (abandoned), water, 248; grade.....	332
39.4	Canadian Pacific Ry., Hamilton and Goderich, crossing, C.P. Ry., rail, 296; N. St. C. & T. Ry., rail.....	326
40.9	Hamilton, Caroline street, grade.....	302
41.2	Grand Trunk Ry. crossing, G.T. Ry., rail, 266; N. St. C. & T. Ry., grade.....	299
41.9	Grand Trunk Ry., Hamilton and Port Dover branch, crossing, G.T. Ry., rail, 254; N. St. C. & T. Ry., grade.....	282
42.8	Hamilton Radial Ry. crossing, H.R. Ry., rail, 248; N. St. C. & T. Ry., rail.....	265
43.1	Toronto, Hamilton and Buffalo Ry. crossing.....	257
47.2	Grand Trunk Ry., Hamilton and Port Dover branch, crossing.....	275
52.0	Grade.....	280
58.1	Grimsby station.....	342
63.1	Beamsville station.....	408
65.5	Vineland station.....	423
68.2	Jordan creek, bed, 292; grade.....	419
69.0	Jordan station.....	405
71.8	Fifteen-mile creek, bed, 289; grade.....	401
75.0	Brook, water, 348; grade.....	474

Miles from Toronto	NIAGARA, ST. CATHARINES AND TORONTO RAILWAY TORONTO AND THOROLD (Projected)	Elevation above mean sea level
75.8	De Cew Falls power-house, pipe lines, 483; grade	505
78.6	Thorold station	578
79.3	Old Welland canal, water, 573; grade	598
79.6	Thorold junction, with main line	595

Miles from Hamilton	CANADIAN NORTHERN RAILWAY—HAMILTON AND BRANTFORD (Projected)	
0.0	Hamilton, junction with Niagara, St. Catharines and Toronto Ry. (projected line)	315
0.3	Hamilton, Breadalbane St., grade	313
0.5	Toronto, Hamilton and Buffalo Ry. crossing, T.H. & B. Ry., rail, 287; C.N. Ry., grade	316
1.3	Toronto, Hamilton and Buffalo Ry. crossing, T.H. & B. Ry., rail, 318; C.N. Ry., grade	345
1.6	Hamilton and Dundas Ry. crossing	352
1.8	Golf Links, grade	361
6.7	Brook, bed, 539; grade	607
10.0	Toronto, Hamilton and Buffalo Ry. crossing, T.H. & B. Ry., rail, 742; C.N. Ry., grade	767
10.2	Governor's Road crossing, grade	779
10.5	Summit, ground, 808; grade	783
14.7	Brook, bed, 715; grade	744
19.4	Fairchild creek, bed, 645; grade	688
24.2	Brantford, Murray St., grade	672
25.0	Grand river, water, 654; low water, 650; grade	670
28.6	Toronto, Hamilton and Buffalo Ry. crossing, T.H. & B. Ry., rail, 725; C. N. Ry., grade	762

BRANTFORD, HAMILTON AND WESTERN RAILWAY— TRIAL LINES

Brantford and Burford town line, lot 1, con. VI, 1,200 feet north of Hamilton and Burford road	845
Road crossing, 1,200 feet north of Burford village	843
Whiteman creek, lot 5, con. VI, Burford, water	828
Road between lots 6 and 7, 1,900 feet north of road between cons. VI and VII, Burford	834
Road between lots 13 and 14, con. VI, Burford	842
Burford and Woodstock road, in lot 16, con. VI, Burford	851
Road between lots 18 and 19, con. VI, Burford	869
Burford and East Oxford town-line, 2,400 feet N. of road between cons. VI and VII	902
Road between lots 4 and 5, con. VI, Oxford East	919
Road between cons. V and VI and lots 4 and 5, Oxford East	921
Road between lots 6 and 7, con. V, Oxford East	934
Road, lot 11, cons. V and VI, Oxford East	983
Oxford Centre, 300 feet north of corner	1,003
Road on lot 17, between cons. IV and V, Oxford East	968
Grand Trunk Ry., Tillsonburg branch, 2,000 feet S. of line between cons. IV and V, Oxford East	976
Town-line between Oxford E. and Oxford W., 1,800 feet N. of cons. V and VI, Oxford West	959
Sweaborg, 900 feet south of	1,003
Putnam village, corner of London road and road between lots 3 and 4, Dorchester North	874

BRANTFORD, HAMILTON AND WESTERN RAILWAY
TRIAL LINESElevation
above mean
sea level

Road between lots 6 and 7, 1,000 feet north of London road, Dorchester North.....	874
Road between lots 12 and 13, Broken Front con., Dorchester North 4,000 feet south of intersection of London road and road between lots 17 and 18, Dorchester North.....	865
London road, 500 feet E. of line between lots 23 and 24, Dorchester North.....	850
	861

CANADIAN NORTHERN RAILWAY—TORONTO AND
CAPREOLMiles from
Toronto

0.0	Toronto, Union station.....	254
2.2	" Queen Street.....	256
3.8	Rosedale station.....	262
4.3	Canadian Pacific Ry., Ontario and Quebec, crossing, C.P. Ry., rail, 329; C.N. Ry., rail.....	264
4.9	Don river, water, 266; rail.....	280
5.6	East Don station.....	293
7.5	Don river, water, 308; rail.....	330
8.7	Don river, bed, 335; rail.....	311
9.2	Canadian Pacific Ry., Ontario and Quebec, crossing, C.P. Ry., rail, 469; Don river, water, 358; C.N. Ry., rail.....	369
11.1	Duncan station.....	465
12.2	Creek, bed, 451; rail.....	477
12.7	Don river, bed, 430; rail.....	488
14.4	Don river, water, 481; rail.....	526
16.9	Thornlea station.....	608
17.9	Creek, bed, 608; rail.....	640
19.8	Creek, bed, 688; rail.....	698
21.3	Creek, bed, 742; rail.....	759
21.4	Richmond Hill station.....	764
22.4	Creek, bed, 784; rail.....	792
26.0	Gormley station.....	907
28.5	Creek, bed, 973; rail.....	1,012
29.2	Summit.....	1,032
30.8	Vandorf station.....	1,001
35.2	Pine Orchard station.....	936
40.5	Mount Albert station.....	784
43.8	Grand Trunk Ry., Sutton branch, crossing.....	761
45.0	Zephyr station.....	755
49.3	Cedar Brae station.....	759
52.0	Gravel pit, south leg of wye.....	769
55.3	Pefferlaw station.....	759
55.6	Black river, bed, 718; rail.....	756
58.1	Port Bolster station.....	748
63.9	Beaver river, bed, 732; rail.....	751
64.3	Beaverton station.....	751
67.1	Trent canal, rail.....	728
67.4	Grand Trunk Ry., Belleville and Midland, crossing, G.T. Ry., rail, 749.7; C.N. Ry., rail.....	725.3
68.6	Gamebridge station.....	740
71.4	Canadian Pacific Ry., Port McNicoll branch, crossing.....	761
71.9	Brechin station.....	767
77.3	Udney, junction with Orillia branch.....	756
82.7	Siding.....	729
84.7	Atherley, junction with Canadian Pacific Ry., Port McNicoll branch.....	727

Miles from Toronto	CANADIAN NORTHERN RAILWAY—TORONTO AND CAPREOL	Elevation above mean sea level
85.2	Lakes Simcoe and Couchiching, water (Nov. 23, 1908), 717.5; (June 8, 1913, 718.6; flood (1912), 721.1; rail.....	727
87.4	Orillia, Canadian Pacific Ry. station.....	724
80.2	Summit.....	798
81.6	Rathbun station.....	787
86.8	Black river, bed, 706; rail.....	727
86.9	Fawkham station.....	728
87.0	Severn river, south outlet, bed, 712; rail.....	723
88.7	Grand Trunk Ry., Toronto and North Bay, crossing.....	725.2
89.1	Washago station.....	723
89.2	Severn river, north outlet, bed, 716; rail.....	725
93.8	Sparrow Lake station.....	712
100.2	Severn river, water, 687; rail.....	734
102.2	Spencer lake, water, 730; rail.....	738
104.0	Southwood station.....	782
108.5	Connell station.....	780
111.9	Torrance station.....	759
113.1	Lake Muskoka, Jeanette narrows, water, 740; rail.....	753
117.7	F. La station.....	776
117.7	Hudley station.....	785
119.4	Medora station.....	807
125.2	Footo Bay station.....	824
127.2	Stewart Lake outlet, rail.....	783
130.0	Lake Joseph station.....	800
130.0	Gordon Bay ".....	786
136.0	Blackstone.....	794
138.6	Blackstone river, bed, 749; rail.....	771
141.8	Falding station.....	760
146.0	Grand Trunk Ry., Ottawa direction, crossing, G.T. Ry., rail, 660; C.N. Ry., rail.....	686
146.8	James Bay junction.....	686
147.5	James Bay, Grand Trunk Ry. station.....	686.3
149.2	Parry Sound station.....	642
149.3	Seguin river, bed, 596; rail.....	636
151.8	Reekie creek, bed, 601; rail.....	707
158.1	Waubamuk station.....	822
165.6	Shawanaga river, bed, 790; rail.....	820
165.0	Boakview Mills station.....	825
166.0	Duval creek, bed, 802; rail.....	827
166.5	Boakview station.....	822
169.0	Summit.....	861
170.0	Junction with North Bay branch (projected).....	847
172.0	Crane creek, bed, 801; rail.....	825
172.3	Deer Lake station.....	820
172.8	Loon Lake creek, bed, 770; rail.....	813
175.9	Bolger creek, water, 751; rail.....	778
176.0	Bolger station.....	779
181.3	Burton station.....	748
184.1	Maganetawan river, South branch, bed, 668; rail.....	690
184.3	South Maganetawan station.....	704
188.0	Maganetawan river, North branch, bed, 664; rail.....	705
188.3	North Maganetawan station.....	713
190.1	Salines station.....	716
193.4	Still river, bed, 615; rail.....	712

Miles from Toronto	CANADIAN NORTHERN RAILWAY—TORONTO AND CAPREOL	Elevation above mean sea level
193.7	Still River station	711
198.9	Mowat station	626
202.4	Little Key river, bed, 590; rail	604
202.5	Champlain, junction with Chisholm branch (projected)	612
202.8	Canadian Pacific Ry., Toronto and Sudbury, crossing, C.P. Ry., rail, 620; C.N. Ry., rail	593
203.0	Little Key river, bed, 577; rail	593
203.1	Sinclair Pit station	592
203.2	Key river, bed, 576; rail	595
205.3	Cranberry Lake station	601
214.1	Key junction, with Key Harbour branch	631
215.4	Pickering river, water, 584; rail	638
215.8	Pickering River station	647
216.9	French river, water, 584; rail	635
220.6	Ruby creek, bed, 621; rail	633
221.9	Bayswater station	650
224.4	Mullin river, bed, 611; rail	640
231.0	Porlock station	646
232.4	Massey creek, bed, 648; rail	679
238.1	Irwin creek, bed, 670; rail	687
240.5	McVittie station	695
241.9	Waterfall station	712
243.8	Wanapitei station	726
246.5	Quartz station	732
247.8	Canadian Pacific Ry., Toronto and Sudbury, crossing	741.9
247.9	Elbow creek, bed, 704; rail	742
248.8	St. Cloud station	752
255.1	Wanapitei river, bed, 729; rail	774
255.8	South Coniston station	790
256.9	Burnt creek, bed, 805; rail	820
257.0	Canadian Pacific Ry., main line, crossing	820
257.2	Coniston station	820
260.0	Gordon creek, bed, 848; rail	860
261.7	Sudbury junction, with Sudbury branch	872
266.9	Sudbury station	856
262.8	Garson junction, with Garson branch	888
266.5	Garson mine	1,007
269.0	Moose creek, bed, 942; rail	950
269.3	Chelmsford creek, bed, 944; rail	950
270.6	Bertrand station	955
271.9	Hammer station	968
274.6	Vermilion river, bed, 967; rail	981
276.1	Vermilion river, bed, 981; rail	999
276.9	Vermilion river, bed, 994; rail	1,003
277.1	Capreol, junction with main line, 420.3 miles from Montreal	1,003

CANADIAN NORTHERN RAILWAY—SUNDRY ELEVATIONS—NIPISSING AND PARRY SOUND DIST.

Townships	Nipissing District	
Barron	Clemow lake	860
White	Lake, lot 8, con. XI	884
Boulter	Dog lake	1,139
Anglin	Philips lake	1,155
Deacon	Lake, lot 4, con. I	1,155

Townships	CANADIAN NORTHERN RAILWAY—SUNDRY ELEVATIONS—NIPISSING AND PARRY SOUND DIST.	Elevation above mean sea level
Lister	Catfish lake.....	1,270
"	Lunch lake.....	1,385
Osler	Lake, lot 25, con. III.....	1,372
"	Moosehead lake.....	1,379
"	Burnt lake.....	1,294
Paxton	Craig lake.....	1,271
Parry Sound District		
McConkey	Boodie lake.....	699
Plair	Kawiganog lake, high water.....	674
Machar	Eagle lake.....	1,160
Lount	Deer lake.....	1,092
Ferrie	Lake, con. XI.....	972
Mills	Charter lake.....	810
Mills	Lake, lot 27, con. III.....	810
Wilson	Hungry lake.....	809
"	Dog ".....	773
"	Otter ".....	776
Brown	Loon ".....	740
"	Windy ".....	751
"	Smoky ".....	727

CANADIAN NORTHERN RAILWAY—NORTH BAY BRANCH (Projected)		
Miles from Junction		
0.0	Junction with Toronto and Capreol line, 170.0 miles from Toronto	847
7.0	Grade.....	787
9.3	Maganetawan river, grade.....	828
14.5	Flanders station ground.....	916
15.4	Summit, ground.....	928
18.8	Legros lake, grade.....	811
20.2	Pickereel river, grade.....	800
21.9	Arnstein station ground.....	852
23.4	Long lake, grade.....	836
25.0	Millar lake, grade.....	835
26.0	Mud lake, grade.....	831
28.7	Golden Valley station ground.....	786
29.7	Depression, grade.....	770
29.8	Outlet of Driver creek, grade.....	771
31.5	Summit, grade.....	815
32.5	Pine lake, grade.....	799
36.8	Commanda lake, grade.....	737
38.3	Restoul station ground.....	740
39.4	South river, grade.....	679
43.8	Hotham station ground.....	813
48.1	Nipissing station ground.....	704
50.5	Depression, grade.....	652
52.7	Bear creek, grade.....	681
56.2	Deepwater junction, grade.....	667
58.3	Lake Nipissing, high water, 648; low water, 641; grade.....	663
62.7	Wistiwasing river, grade.....	770
62.8	Nipissing and Nosbonsing Ry. crossing.....	772
63.6	Grand Trunk Ry., Toronto and North Bay, crossing.....	789
63.9	Junction with main line, 326.8 miles from Montreal	787

Miles from Waubamik	CANADIAN NORTHERN RAILWAY—PARRY SOUND AND NORTH BAY BRANCH (<i>Projected</i>)	Elevation above mean sea level
0.0	Waubamik, junction with Toronto and Capreol line, 158.1 miles from Toronto.....	
2.0	Brook, high water, 784; water, 782; grade.....	822
3.5	Vowels lake, high water, 788; water, 787; grade.....	796
6.0	Narrows between Ant and Owl lakes, top of dam, 796; water, 792; grade.....	799
6.1	McKellar station.....	807
10.9	Grade.....	807
14.0	Jordan river, bed, 834; grade.....	913
16.0	Dunchurch station.....	875
16.3	Whitestone lake, water, 817; grade.....	840
		834
Miles from Chisholm	CANADIAN NORTHERN RAILWAY—CHISHOLM BRANCH (<i>Projected</i>)	
0.0	Chisholm, junction with main line, 318.2 miles from Montreal	897
0.2	Graham creek, water, 880; bed, 874; grade.....	895
6.3	Grand Trunk Ry., Toronto and North Bay, crossing, G.T. Ry., rail (to be raised), 897; C. N. Ry., grade.....	876
7.6	Powassen station.....	884
9.7	South river, water, 843; grade.....	864
13.3	Nipissing station.....	906
15.2	Wolf creek, water, 759; grade.....	878
18.4	Hotham station.....	866
21.7	Duncan lake, water, 798; top of dam, 808; grade.....	828
26.2	Barton lake, water, 735; grade.....	749
28.1	Patterson station.....	734
28.8	Commanda lake, water, 729; top of dam, 731; grade.....	738
30.9	Restoul station.....	819
32.6	McVeety lake, water, 800; grade.....	814
33.8	South Rainy lake, water, 820; grade.....	825
34.9	Rainy station.....	830
36.0	Spindle lake, water, 802; top of dam, 809; grade.....	816
40.0	North Rainy lake, water, 736; grade.....	752
43.0	Rainy creek, high water, 705; low water, 700; grade.....	706
43.2	Memesagamesi lake, high water, 705; low water, 700; grade.....	706
46.0	Loring station.....	714
47.6	Boodie lake, water, 699; grade.....	701
50.4	Wolfe lake, water, 670; grade.....	703
53.2	McConkey station.....	683
54.4	Pickerel river, water, 671; bed, 647; grade.....	685
59.7	Kawigamog lake, high water, 674; grade.....	676
61.9	Blair station.....	711
68.2	Mowat station.....	617
72.9	Champlain, junction with Toronto and Capreol line, 202.5 miles from Toronto.....	612
Miles from Key Junc.	CANADIAN NORTHERN ONTARIO RAILWAY—KEY HARBOUR BRANCH	
0.0	Key junction, with Toronto and Capreol line, 214.1 miles from Toronto.....	631
4.6	Fox creek, bed, 595; rail.....	609
6.0	Siding, rail.....	597
6.3	Junction with branch line to dock front.....	599
6.9	Key Inlet, end of branch line at docks, water, 581; rail.....	587
6.8	Key Harbour, end of trestle, rail.....	618

Miles from
Gowganda
Junc.CANADIAN NORTHERN RAILWAY—GOWGANDA
BRANCH (*Projected*)Elevation
above mean
sea level

0-0	Gowganda junction, with main line, 458.8 miles from Montreal	1,354
0-3	Outlet of Tramp lake, water, 1,341; grade.....	1,353
1-5	Wigwam lake, water, 1,298; grade.....	1,311
8-8	Conglomerate station.....	1,284
13-9	Wanapitei river, water, 1,204; grade.....	1,207
18-9	Rosie creek, bed, 1,199; grade.....	1,204
26-2	Sylvester brook, bed, 1,204; grade.....	1,216
33-2	Togo lake, water, 1,242; grade.....	1,254
37-5	Summit.....	1,306
38-4	Outlet of lake, bed, 1,274; grade.....	1,285
40-9	Jackpine station.....	1,310
45-6	Beaver lake, grade.....	1,257
46-6	Ridge lake, grade.....	1,244
49-9	Bone Lake station.....	1,211
51-0	Hangingsstone lake, grade.....	1,211
53-9	Gowganda lake, water, 1,135; grade.....	1,143
56-7	Montreal river, water, 1,134; grade.....	1,156
58-0	Gowganda station.....	1,147

CANADIAN NORTHERN RAILWAY—MAIN LINE—
SUNDY ELEVATIONS

Sudbury District

Vermilion river	
Gibson lake, water.....	1,101
Camp Island lake, water.....	1,184
Boundary lake, water.....	1,214
Proudfoot lake, water.....	1,221
Vermilion river, West branch, 1.75 miles east of Taylor lake, water	1,166
Bigwood lake, water.....	1,232
0.5 mile west of Bigwood lake, water.....	1,289
1.5 miles east of Osborne lake, water.....	1,320
0.75 mile east of Osborne lake, water.....	1,365
Osborne lake, water.....	1,372
Lake, 0.25 mile west of Bigwood lake, water.....	1,278
McGrindle lake, water.....	1,400
Lake, 0.17 mile north of McGrindle lake, water.....	1,403
Deer lake, water.....	1,416
Venetian lake, water.....	1,387
Small lake, 1.25 miles west, water.....	1,458
Large lake, 0.17 mile north, water.....	1,403
Lake, 2.25 miles north, water.....	1,412
Windy lake, water.....	1,351
Rome lake, water.....	1,408
Graveyard lake, water.....	1,248
Post lake, water.....	1,255
Lake, 1 mile west, water.....	1,340
Macdonald creek, water.....	1,285
Beaver lake, water.....	1,300
Odin lake, water.....	1,321
Thor lake, water.....	1,284
Blue lake, water.....	1,284
Tramp lake, water.....	1,342
Menzie lake, water.....	1,344
Kalako lake, water.....	1,306

CANADIAN NORTHERN RAILWAY—MAIN LINE—
SUNDRY ELEVATIONSElevation
above mean
sea level

Sudbury District

Oshawang lake, water.....	1,300
Nahnun lake, water.....	1,329
Lake Onaping, water.....	1,350
Upper Wanapitei lake, water.....	1,329
Lake, 1 mile west, water.....	1,468
Pazhig lake, water.....	1,332
Height-of-land, between river St. Lawrence and Hudson bay, ground.....	1,358
Opikimika river, water.....	1,336
Tekwauknebeesh lake, water.....	1,326
Deschênes creek, water.....	1,295
Deschênes lake, water.....	1,294
White Partridge lake, water.....	1,345
Lake, 1-3 miles west, water.....	1,368
Pine lake, water.....	1,353
Lake, 0-75 mile north, water.....	1,328
Lake, 0-33 mile north, water.....	1,345
Donneganna lake, water.....	1,323
Dushabani lake, water.....	1,321
Marshy lake, water.....	1,342
Sand creek, dam at foot of Marshy lake, water.....	1,338
Wolf lake, water.....	1,327
Oshaneganna station, lake, 4 miles northwest, water.....	1,306
" summit, 2-25 miles north, ground.....	1,340
Shanakani river, 0-25 mile east, water, 1,301; 3-00 miles east, 1,297; 4-00 miles east, 1,293; 5-75 miles east.....	1,274
Ewing station, lake, 4-2 miles east, water.....	1,238
" " lake, 2-5 miles southeast, water.....	1,227
" " lake, 1-5 miles southeast, water.....	1,239
" " lake, 4 miles southeast, water.....	1,231
" " summit, 3-6 miles east, ground.....	1,272
" " lake, 4 miles northeast, water.....	1,220
Small lake, 3 miles west of Ewing, water.....	1,209
Divide lake, water.....	1,231
Schou lake, water.....	1,225
Schist lake, water.....	1,248
Bagsverd lake, water.....	1,240
Three-duck lake, water.....	1,242
Blue lake, water.....	1,268
Clear lake, water.....	1,258
Lake, 0-25 mile south, water.....	1,238
Muskigogama or Mollie lake, water.....	1,225
Mesomikenda lake, water.....	1,165
Lake, 0-66 mile west, water.....	1,190
Wolf lake, water.....	1,215
Lake, 0-75 mile northeast, water.....	1,203
Rat lake, water.....	1,243
Small lake, 0-66 mile west, water.....	1,243
Pebonishewi lake, water.....	1,276
Lake, 0-25 mile south, water.....	1,269
Mekaming lake, water.....	1,160
Mitchell station, ground, 0-25 mile southwest.....	1,241
" " lake, 1-5 miles southeast, water.....	1,205
Ground, 0-25 mile west of Winzi lake.....	1,260
Okoneezing lake, water.....	1,197
Lake, 2 miles east, water.....	1,181

CANADIAN NORTHERN RAILWAY—MAIN LINE—
SUNDRY ELEVATIONSElevation
above mean
sea level

Sudbury District

Okonewing lake, water.....	1,206
Summit, 0.5 mile west, ground.....	1,460
Kataudawa lake, water.....	1,189
Lake, 1.2 miles north, water.....	1,204
Lake, 2 miles north, water.....	1,207
Lake, 3 miles north, water.....	1,210
Lake, 3.25 miles north, water.....	1,212
Summit, 3.75 miles north, water.....	1,229
Lake, 0.5 mile south, water.....	1,186
Mindedo lake, water.....	1,197
Lake, 2.25 miles south, water.....	1,209
Lake, 1.66 miles north, water.....	1,185
Nahnuni lake, water.....	1,212
Lake, 0.25 mile north, water.....	1,228
Lake, 1.75 miles north, water.....	1,235
Small lake, 4.5 miles north, water.....	1,249
Wadoop lake, water.....	1,217
Kechenayush lake, water.....	1,211
Lake, 0.1 mile south, water.....	1,210
Lake, 0.66 mile south, water.....	1,209
Lake, 1 mile south, water.....	1,208
Small lake, 1 mile west, water.....	1,352
Lake, 2.25 miles west, water.....	1,293
Summit, 2.84 miles west, ground.....	1,410
Lake, 3.41 miles west, water.....	1,319
Ojindewin lake, water.....	1,211
Portage lake, water.....	1,225
Ground, 1 mile west of Kasaswaywitchwan lake.....	1,310
Katagi lake, water.....	1,296
Atikipemeska lake, water.....	1,296
Washboard lake, water.....	1,262
Kas lake, water.....	1,194
Ahsine lake, water.....	1,206
Ground, 0.5 mile southwest.....	1,410
Nicholls station, small lake, 1 mile southwest of, water.....	1,316
Junction lake, water.....	1,217
Great lake, water.....	1,236
Lake, 0.3 mile southwest, water.....	1,237
Summit, 0.5 mile southwest, ground.....	1,320
Shallow lake, water.....	1,217
Lake, 0.1 mile southwest, water.....	1,269
Lake, 0.5 mile southwest, water.....	1,272
Summit 1 mile southwest, ground.....	1,296
Lake, 0.75 mile southwest, water.....	1,261
Lake, 0.2 mile northwest, water.....	1,248
Matagaming lake, water.....	1,099
Small lake, 0.5 mile east, water.....	1,258
Small lake, 1 mile east, water.....	1,296
Ground Hog station, Ground Hog lake, water.....	1,091
" " ground, 0.75 mile west.....	1,150
" " ground, 2 miles east.....	1,260
Hoodoo lake, water.....	1,061
Lake, 2 miles northeast, water.....	1,163
Peponomewakenta lake, water.....	1,098
Bay lake, water.....	1,158

CANADIAN NORTHERN RAILWAY—MAIN LINE—
SUNDRY ELEVATIONSElevation
above mean
sea level

Sudbury District

Big Perch lake, water.....	1,115
Ground, 0.3 mile east.....	1,210
Big Boulder lake, water.....	1,112
Lake, 0.2 mile south, water.....	1,115
Slate Rock lake, water.....	1,098
Sturgeon lake, water.....	1,098
Piskagogama river, water.....	1,061
Lake 0.1 mile west, water.....	1,064
Four miles E. of Goose River, lake, water..	1,026
Lake, 0.5 mile northwest, water.....	1,004
Large lake, 0.3 mile northwest, water.....	1,008
Goose River station, summit, 1.5 miles northwest, ground.....	1,150
Tommy Frog lake, ground 1.5 miles southeast of, 1,110; 0.5 mile south, ground.....	1,170
Goose lake, water.....	1,053
Small lake, 0.3 mile northwest, water.....	1,053
Lake, 0.75 mile northwest, water....	1,090
Lake, water.....	1,094
Summit lake, water.....	1,177
Kenoshapoonakooka lake, water.....	1,104

A'goma District

Mount Horden.....	1,496
Pishogon lake, water.....	1,044
Ground, 0.5 mile north.....	1,091
Dishnish station, ground, 2 miles west.....	1,110
Watts lake, water.....	1,089
Ground, 1.75 miles east.....	1,170
Oba river, Albany branch, 2 miles north of railway, water.....	1,067
Ground, 2 miles west.....	1,180
Lake, 4.5 miles south, water.....	1,061
Kabinakagami river, 3.25 miles north of track, water, 986; above '8-foot' fall, 3 miles southwest, 1,009; 6 miles southwest.....	1,011
Lake, 7.2 miles southwest.....	1,061
Ground, 0.5 mile south.....	1,110
Mountain lake, water.....	1,029
Lake, 3.3 miles southwest, water.....	1,024
Ground, 1.75 miles south.....	1,260
Hanna, ground, 0.5 mile south of.....	1,100
Ground.....	1,070
Ground, 3 miles north of Little Jackfish river and 6 miles west of Shekak river.....	1,310
Lake, 2.25 miles north of Shallow lake, ground.....	1,210
Nagagamit lake, water.....	1,030
Summit, 4 miles southwest, ground.....	1,150
Ground, 0.75 mile southeast of Shekak station.....	1,190
Depression lake, ground.....	990
Summit, between Shallow and Nagagamit lakes, ground.....	1,070
Nagagamit lake, water.....	965
Dookini lake, water.....	970
Divide between Dookini and Nagagamit lakes, ground.....	990
Ground, 3.3 miles southeast of Fitzbach.....	1,050

*Barometric elevation

CANADIAN NORTHERN RAILWAY—MAIN LINE—
SUNDRY ELEVATIONSElevation
above mean
sea level

Algoma District

Small lake, near Fitzbach, water	982
Skukasu lake, water	973
Ground, 2 miles southeast	1 030
Otasawian river, 6.3 miles north, water	771

Thunder Bay District

White Otter lake, ground	1 050
Pagwachuan lake, water	929
Ground, 0.3 mile north	1 130
Lake, 0.75 mile north, water	965
Lake, 0.75 mile east of northeastern end, water	927
Lake, 2.46 miles southeast of northeastern end, water	921
Lake, 3.75 miles west, water	1 080
Lake, 4 miles west, water	1 105
Charon pass, 3.3 miles east, ground	1 110
Lake, 200 feet east of Styx bay, water	929
McKay lake, water	1 052
Summit, 3 miles northwest, ground	1 254
Lake, 0.5 mile northeast, water	1 055
Summit, 2 miles northeast, ground	1 234
Lake, 3.75 miles north, water	1 076
Height-of-land, ground	1 135
Long lake, water	1 017
Sucker lake, water	1 083
Grassy lake, water	1 094
1.25 miles northwest of Little Long lake, ground	1 253
Lake, 0.2 mile northeast of Wild Goose lake, water	1 129
Cross lake, ground	1 128
No-turkey lake, ground	1 128
Partridge lake, water	1 073
Ground, 0.25 mile east	1 144
Summit, 0.5 mile south of Blackwater lake, ground	1 254
Ground, 5.3 miles west of Blackwater lake	1 044
Ground, 8 miles west of Blackwater lake	1 024
Ground, 0.5 mile east	1 304
Postaggon river, at mouth, ground, 1 154; 3 miles northeast, water	1 184
Ground, 2 miles east of Orient bay, lake Nipigon	1 450
Lake, 0.1 mile north of Keemle lake, water	887
Summit lake, 7 miles east of Keemle lake, water	1 459
Lake, 1.5 miles west, water	1 410
Small lake, 1.25 miles northeast, water	1 445
Small lake, 2.75 miles west, water	1 413
Shamrock lake, water	853
Divide between Keemle and Shamrock lakes, ground	943
Lake, 0.1 mile south, water	840
Wanogu lake, water	823
Ground, lot 3, con. I, Booth tp., west shore of Lake Helen, ground	660
Ground, lot 11, con. III, Booth	1 000
Ground, 1 mile north of Nipigon bay	1 000
1.5 miles northeast of Dalziel station	680
Ground, 1 mile north of Wolf station	640
Silver lake, water	1 077
Lake, lot 10, con. V, McTavish tp., water	1 121
Ground, lot 9, cons. V and VI, McTavish tp	1 350

ALTITUDES IN CANADA

CANADIAN NORTHERN RAILWAY—MAIN LINE—
SUNDRY ELEVATIONSElevation
above mean
sea level

Thunder Bay District

Loon lake, McTavish tp., water.....	1,021
Lake, lot 5, con. II, McTavish tp., water.....	751
The Palisades, lots 9 and 10, con. VII, McTavish tp., ground.....	1,100
Hill, lot 10, con. V, McTavish tp., ground.....	1,250
Hill, lots 8 and 9, McGregor tp., ground.....	800
Wild Goose point, lot 13, McGregor tp., ground.....	640

BEATTY'S C. P. R. TRIAL LINE, 1871

Thunder Bay District

Long lake, water.....	1,017
Lake, 2.2 miles southeast, water.....	1,247
Lake, 5.3 miles southeast, water.....	1,161
Pelau lake, water.....	1,274
Lake, 0.75 mile northwest, water.....	1,275
Steel lake, water.....	1,081
Small lake, 1.5 miles west, water.....	1,319
Lake, 2 miles northeast, water.....	1,045
Divide between Steel and Trapper lakes, ground.....	1,171
Trapper lake, water.....	1,125
Small lake, 0.3 mile northeast, water.....	1,185
Summit, divide between Trapper and Meadow lakes, ground.....	1,201
Meadow lake, water.....	1,176
Mountain lake, water.....	1,143
Precipice lake, water.....	1,121
Gull Rock lake, water.....	1,113
Lake, 1.75 miles southeast, water.....	1,079
Camp lake, water.....	1,069
Ground, 0.5 mile northeast.....	1,291
Lake, 1 mile north, water.....	1,081
Beatty lake, water.....	1,008
Ground, 0.25 mile west.....	1,121
Small lake, 1 mile west, water.....	1,191
Small lake, 2 miles west, water.....	1,214
Lake, 5.33 miles northeast, water.....	989
Black creek, 1 mile east of Beatty lake, water.....	1,008
Black creek, 2.75 miles east of Beatty lake, water.....	1,002
Black creek, 4.75 miles east of Beatty lake, water.....	989
Summit, divide between Pic river and Black creek, ground.....	1,034
Otter lake, water.....	1,039
Lake, 1.5 mile northwest, water.....	1,012
Rabbit lake, water.....	944
Kawepitikwia lake, water.....	924
Lake, 0.25 mile east, water.....	904
Pic river.....	
Sandhill portage, 6 miles S.E. of Kawepitikwia lake, ground.....	874
Lake, 0.3 mile north of Sandhill portage, water.....	815
Foot of Sandhill portage, water.....	735
White Otter or 2nd portage, head of falls, 727; foot of falls, water.....	708
White Otter creek, 8 miles N.E. of junction with Pic river, water.....	697
16.3 miles upstream, above falls, water.....	707
19.8 miles upstream, foot of rapids, water.....	710
20.6 miles upstream, head of rapids, water.....	752
22.6 miles upstream, below falls, water.....	757

Miles from Montreal CANADIAN NORTHERN RAILWAY—MAIN LINE—
MONTREAL TO PORT ARTHUR Elevation
above mean
sea level

	0.0	* Montreal, Dorchester Street station (east end of tunnel)	69
	0.4	McGill pipe shaft, rail	75
	0.9	City reservoir, water, 446; rail	90
	1.2	Ground, 732; rail	101
	2.1	Montreal Water and Power Company's reservoir, bed, 355; water, 371; rail	129
	2.3	Maplewood Avenue shaft, ground, 369; rail	134
	3.2	West Portal station	163
	3.2	Canadian Pacific Ry. crossing, C.P. Ry., rail, 191; C.N. Ry., rail	163
	5.1	Grand Trunk Ry., Jacques Cartier Union branch, crossing	114
	5.7	Montreal junction, with line behind Montreal mountain	110
	7.7	Cartierville station	107
	11.1	St. Rémi station	80
	14.4	Rivière des Prairies, main channel, high water, 77; water (July 17, 1912), 66; rail	90
	15.0	Rivière des Prairies, high water, 77; water (July 17, 1912), 68; rail	90
	16.2	Ile Jésus station	98
	16.6	Rivière des Mille Isles, high water, 79; low water, 71; rail	91
	17.0	Grand Moulin station	87
	22.2	St. Joseph station	122
	25.6	Rivière au Chêne, high water, 125; water (Aug. 10, 1911), 119; rail	134
	27.9	St. Benoit station	149
	30.5	Summit, rail	170
	35.2	St. Hermas station	142
	37.8	Rouge river, high water, 114; low water, 107; rail	124
	40.0	St. Andrews station	111
	40.2	North river, high water, 88; low water, 79; rail	107
	42.5	Carillon station	120
	47.0	Cushing station	182
	54.7	† Hawkesbury, junction with Joliette and Hawkesbury branch	158
	54.9	Grand Trunk Ry., Hawkesbury branch, crossing	159.7
	59.1	L'Orignal station	165.2
	59.3	Mill creek, bed, 149; rail	165
	62.7	Summit, rail	181
	64.2	Evanturel station	161
	64.9	Atacas creek, bed, 127; rail	162
	68.4	Laframboise station	171
	72.9	George river, bed, 129; rail	168
	75.0	Treadwell station	169
	78.2	Jessop Falls station	173
	78.3	South Nation river, high water, 142; low water, 128; rail	178
	80.8	Wendover station	175
	82.8	Line between Russell and Prescott counties, rail	185
	87.4	Clarence station	175
	88.6	Fox creek, bed, 129; rail	169
	90.4	Rockland station	147
	91.4	Ottawa river, high water (May, 1906), 142; stage low water, 128.4; water (May, 1907), 134; stage low water (Nov., 1906), 129; rail	153
	91.9	Dent creek, bed, 143; rail	165
	94.2	Becket creek, bed, 143; rail	174
	94.5	Elliot creek, bed, 149; rail	177
	96.7	Cumberland station	191
	98.7	Rivington station	172
	101.4	Taylor creek, bed, 147; rail	181

* Under construction between Montreal and Hawkesbury.

† Operated between Hawkesbury and Ottawa.

Miles from Montreal	CANADIAN NORTHERN RAILWAY—MAIN LINE— MONTREAL TO PORT ARTHUR	Elevation above mean sea level
102.8	Orleans station.....	205
103.5	Menard creek, bed, 174; rail.....	196
104.9	Hiawatha Park station.....	187
106.8	Greens creek, bed, 143; rail.....	207
108.7	Summit, rail.....	245
110.0	Cyrville station.....	229
111.4	Ottawa junction, with Toronto and Ottawa line.....	198
111.4	Canadian Pacific Ry., Prescott branch, crossing.....	198.1
111.5	Rideau river, water, 184; rail.....	197.3
112.8	Ottawa, Central station.....	213.7
111.5	Canadian Pacific Ry., main line, crossing.....	191.7
111.6	Grand Trunk Ry., Ottawa division, crossing.....	198.5
114.5	Canadian Pacific Ry., Prescott branch, crossing.....	251.6
116.6	Rideau river, water (Aug. 3, 1911), 243; rail.....	289
117.4	Rideau, junction with Toronto and Ottawa line.....	289
<i>Under Construction*</i>		
122.5	Richmond Road, crossing.....	283
123.4	Canadian Pacific Ry., main line, crossing C.P. Ry., rail, 270; C.N. Ry., rail.....	298
125.4	Grand Trunk Ry., Ottawa division, crossing, G.T. Ry., rail, 242; C.N. Ry., rail.....	268
129.0	March station.....	265
139.3	Torbolton station.....	249
143.6	Carp river, high water, 251; water 249; rail.....	258
145.4	Fitzroy station.....	243
145.6	Mississippi river, high water, 235; water (Nov., 1906), 232; rail.....	241
149.2	Ottawa river, ordinary high water, 240; water (Nov. 6, 1906), 236; rail.....	254
152.4	Pontiac station.....	261
158.9	Bristol Corner station.....	321
165.4	Clarendon station.....	331
170.4	Portage-du-Fort station.....	330
171.4	Ottawa river, water (July 3, 1911), 261; low water, 250, Georgian Bay ship canal (proposed water level), 280, grade.....	320
177.4	Forrester's Falls station.....	308
183.5	Beachburg station.....	511
188.8	Westmeath station.....	457
191.9	Canadian Pacific Ry., main line, crossing, C.P. Ry., rail, 403; C.N. Ry., rail.....	429
197.7	Pembroke, divisional yard.....	447
198.3	Muskat river, water (May 1, 1911), 391; grade.....	440
198.3	Grand Trunk Ry., Pembroke branch, crossing, G.T. Ry., rail, 413; C.N. Ry., rail.....	439
198.7	Pembroke, switch to local yards.....	433
199.5	Indian river, water, 383; rail.....	433
203.2	Hiam station.....	503
209.6	Alice station.....	4
210.7	North branch Indian river, high water, 467; rail.....	493
213.7	South Indian river, high water, 483; rail.....	544
222.3	Master station.....	733
228.2	Divide station (divide between Indian and Petawawa rivers).....	759
232.6	Lake Rouge creek, water, 726; crest of dam, 736; rail.....	748
	Kathmore station.....	761

*Under construction between Rideau and North Bay

CANADIAN NORTHERN RAILWAY

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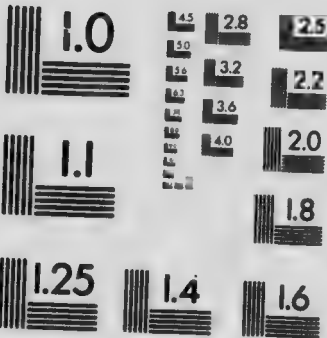
Miles from Montreal	CANADIAN NORTHERN RAILWAY—MAIN LINE— MONTREAL TO PORT ARTHUR <i>Under Construction</i>	Elevation above mean sea level
234.5	South Petawawa river, water 727; rail	743
236.8	Grand lake, water, 730; water (Sept. 26, 1911), 734; top of dam .. 740; rail	744
239.5	Grand Lake station	745
246.0	Clemow station (divide between South Petawawa and Little Madawaska rivers)	790
247.4	Little Madawaska river, water, 789; rail	794
249.0	Little Madawaska river, water, 776; rail	783
253.1	Lac-a-Travers station	826
255.0	Petawawa river, water, 814; rail	848
259.5	La Vieille station	893
260.0	Lake Francis, water, 880; rail	895
262.7	Petawawa river, water (Feb. 2, 1912), 898; high water, 902; rail ..	920
264.5	Vaughan station	927
265.4	Trout lake, water (Mar. 2, 1912), 913; high water, 916; rail ..	920
268.8	Petawawa river, water, 940; rail	980
271.2	Cedar lake, high water, 1,014; water (Jan. 20, 1912), 1,007; rail ..	1,024
271.4	Cedar Lake station	1,029
277.2	Dantin station	1,038
280.7	Wasitwet station	1,019
281.5	Cauchon creek, water, 1,009; rail	1,032
284.2	Cauchon lake, extreme high water, 1,069; water, 1,060; rail ..	1,073
287.0	Cauchon station	1,073
293.2	Mink station	1,051
296.0	Kioshkokwi lake, high water, 991; water, 988; rail	998
297.0	Amable-du-Fond station	1,068
297.7	Amable-du-Fond river, water, 993; rail	1,064
303.0	Wolf creek, water, 954; rail	990
306.0	Boulter station	1,144
306.7	Dog lake, water, 1,137; rail	1,143
312.0	Wistiwasing river, high water, 1,015; rail	1,025
313.0	Wasing station	1,017
317.8	Graham creek, bed, 870; rail	907
318.2	Chisholm, junction with Chisholm branch (projected)	897
322.8	Wistiwasing river, water, 841; rail	856
324.0	Nosbonsing station	832
324.1	Nipissing and Nosbonsing Ry. crossing, N. & N. Ry., rail, 748; C. N. Ry., rail	800
325.0	Wistiwasing river, water, 803; rail	815
328.8	Callander station	749
332.3	Canadian Pacific Ry., main line, crossing, C.P. Ry., rail, 662; C.N. Ry., rail	691
334.5	Transfer yard	649
335.6	Timiskaming and Northern Ontario Ry. crossing	675
337.0	*North Bay station	687
338.3	Duchesnay creek, high water, 657; water, 652; grade	700
342.6	Yellek station	688
350.9	Little Sturgeon river, high water, 642; water, 637; rail	677
351.5	Meadowside station	689
356.8	Harfred station	733
358.0	Sturgeon river, high water, 692; water, 683; rail	728
361.4	Smoky Falls station	742
365.8	Sturgeon river, high water, 732; water, 719; rail	736
367.3	Ashburton station	756
369.6	Field station	780
373.7	Poincaré station	787

*Operated between North Bay and Ruel



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Miles from Montreal	CANADIAN NORTHERN RAILWAY—MAIN LINE— MONTREAL TO PORT ARTHUR	Elevation above mean sea level
375.1	McCarthy creek, high water, 734; water, 727; rail.....	783
377.9	Timagami creek, high water, 751; water, 746; rail.....	774
383.8	Azen station.....	761
385.2	Sturgeon river, high water, 764; water, 757; rail.....	772
387.2	Ess creek, top of dam, 780; water, 771; rail.....	786
389.6	Janes station.....	789
390.3	Ess creek, water, 774; rail.....	783
391.5	Ess creek, water, 774; rail.....	782
396.2	Ess creek, top of slide, water, 840; rail.....	846
397.8	Crerar station.....	836
402.0	Grade.....	861
406.4	Spaidal station.....	955
410.0	Moose creek, water, 926; rail.....	971
413.2	Belfort station.....	1,023
415.3	Ella lake, water, 1,012; rail.....	1,014
420.3	Capreol, junction with Toronto and Capreol line.....	1,003
423.8	Junction with spur to Wissell mine.....	1,021
424.7	Normand station.....	1,033
428.0	Sellwood junction, with Sellwood branch.....	1,084
428.9	West branch Vermilion river, bed, 1,064; rail.....	1,087
432.4	West branch Vermilion river, bed, 1,115; rail.....	1,146
432.7	Sellwood station.....	1,156
432.1	Vermilion river, water (Feb., 1909), 1,096; bed, 1,089; rail.....	1,108
436.0	Vermilion river, rail.....	1,187
436.1	Poole station.....	1,187
443.8	Raphoe station.....	1,244
444.7	Vermilion river, water, 1,239; bed, 1,235; rail.....	1,243
446.1	Graveyard lake, Vermilion river, water (Oct. 2, 1909), 1,240; rail.....	1,262
448.0	Post lake, Vermilion river, water (April 7, 1909), 1,248; rail.....	1,264
448.9	Lakepost station.....	1,262
451.3	Macdonald creek, bed, 1,272; rail.....	1,278
456.0	Thor Lake station.....	1,336
458.8	Gowganda junction, with Gowganda branch (projected).....	1,354
464.6	Wanapitei river, water 1,307; rail.....	1,314
471.1	*Ruel station.....	1,344
475.1	Overflow from Onaping lake, rail.....	1,303
478.9	Deschesne station.....	1,313
486.2	Oshannegana station.....	1,312
487.2	Oshannegana river, water, 1,297; rail.....	1,306
489.7	Lake, water, 1,290; rail.....	1,315
495.0	Muskegogama river, high water, 1,223; water 1,221; rail.....	1,227
495.8	Ewing station.....	1,234
497.8	Muskegogama river, high water, 1,158; water, 1,155; rail.....	1,207
502.0	Mitchell station.....	1,165
504.3	Minnisinagua lake, high water, 1,155; water (Apr. 15, 1909), 1,147; rail.....	1,158
509.3	Windegogwinzini lake, water, 1,184; rail.....	1,188
510.9	Ostrom station.....	1,211
514.8	Morton station.....	1,207
520.5	Summit.....	1,257
523.5	Mallet station.....	1,255
529.0	Kasaswaywitchwan lake, water, 1,220; rail.....	1,255
530.5	Congdon station.....	1,281
535.2	Crooked creek, high water, 1,273; water, 1,272; rail.....	1,279

*Line is not operated (Feb., 1915) between Ruel and Port Arthur.

Miles from Montreal	CANADIAN NORTHERN RAILWAY—MAIN LINE— MONTREAL TO PORT ARTHUR	Elevation above mean sea level
537.0	Nicholls station.....	1,288
540.0	Ant Island lake, water, 1,231; rail.....	1,241
543.0	Phippen station.....	1,240
545.3	Snow lake, water, 1,193; rail.....	1,241
552.5	Groundhog station.....	1,138
553.8	Groundhog river, water (July 28, 1912), 1,090; rail.....	1,143
557.0	Hoodoo station.....	1,109
559.1	White Duck lake, water, 1,097; rail.....	1,126
559.9	Winter Spawning lake, water, 1,097; rail.....	1,117
561.5	Singed-tree lake, water, 1,097; rail.....	1,125
562.5	Tombs station.....	1,147
564.2	Muskego river, water, 1,080; rail.....	1,115
566.4	Midway creek, water, 1,061; rail.....	1,081
567.9	Foley station.....	1,078
568.1	Opishkanogama river, water, 1,059; bed, 1,052; rail.....	1,069
574.0	Goose River station.....	1,045
575.7	Goose river, high water, 1,022; water, 1,018; rail.....	1,040
576.7	Goose river, high water, 1,032; water, 1,029; rail.....	1,043
580.0	Tommy Frog lake, water, 1,072; high water, 1,080; rail.....	1,086
581.8	Grassy lake, water.....	1,100
582.6	Mishiongo creek, water, 1,120; rail.....	1,134
582.7	Mishiongo creek, water, 1,129; rail.....	1,136
584.0	Mishiongo creek, water, 1,149; rail.....	1,156
585.1	Mishiongo creek, water, 1,160; rail.....	1,167
586.8	Mishiongo lake, water, 1,171; high water, 1,173; rail.....	1,184
587.3	Mishiongo station.....	1,182
590.0	Phillips station.....	1,180
593.8	Kenoshapoona lake, water, 1,091; rail.....	1,099
595.9	Wells station.....	1,095
599.8	Trout river, high water, 1,043; water, 1,036; bed, 1,014; rail.....	1,045
603.0	Kapuskasing lake, high water, 1,041; water, 1,035; rail.....	1,043
605.4	Kapuskasing station.....	1,053
608.7	Summit.....	1,102
610.4	Horden station.....	1,076
611.0	East branch Beaver creek, high water, 1,045; rail.....	1,064
612.9	West branch Beaver creek, water, 1,023; bed, 1,014; rail.....	1,057
618.6	Stokes station.....	1,102
624.4	Missinaibi river, high water, 1,018; water (Apr. 28, 1910), 1,014; rail.....	1,036
624.8	Brunswick station.....	1,033
626.4	Brook, high water, 1,018; rail.....	1,023
631.7	Brook, water, 1,011; rail.....	1,019
632.5	Conklin station.....	1,031
634.5	Conklin river, high water, 986; water, 983; rail.....	1,008
638.6	Fire River station.....	1,024
640.8	Fire river, high water, 986; water, 980; rail.....	989
645.0	Barbour station.....	1,045
648.0	Brook, water, 1,031; bed, 1,028; rail.....	1,036
649.1	Wolf creek, water, 1,035; rail.....	1,038
650.8	Dishnishpugna creek, water, 1,059; rail.....	1,065
651.2	Dishnish station.....	1,071
656.0	Minnapooka lake, high water, 1,109; water, 1,107; rail.....	1,109
657.4	Minnapooka station.....	1,137
662.7	Boomerang lake, water, 1,119; rail.....	1,135
663.6	Mongoose station.....	1,150
663.6	Mongoose lake, water.....	1,144
665.4	Pishogon river, water, 1,083; bed, 1,084; rail.....	1,121
670.8	Neswabin station (summit).....	1,164

Miles from Montreal	CANADIAN NORTHERN RAILWAY—MAIN LINE— MONTREAL TO PORT ARTHUR	Elevation above mean sea level
672.0	Manson creek, water, 1,142; rail.....	1,148
679.1	Oua station.....	1,086
680.2	Oba river, Albany branch, high water, 1,069; water, 1,066; rail....	1,074
683.0	Albany station.....	1,120
688.0	Kabinakagami river, high water, 1,001; water, 999; rail.....	1,032
693.5	Ground, 1,111; rail.....	1,108
699.0	Hanna station.....	1,058
700.3	Surprise lake, water (June 16, 1911), 1,012; rail.....	1,032
704.0	Shekak river, water (June 20, 1911), 989; rail.....	1,000
707.2	Shekak station.....	1,037
711.9	Little Jackfish river, water (July 6, 1911), 1,051; rail.....	1,059
712.6	Little Jackfish river, water (July 6, 1911), 1,054; rail.....	1,066
715.2	Little Jackfish river, water (July 12, 1911), 1,070; rail.....	1,080
717.4	Fitzbach station.....	1,088
717.7	Little Jackfish river, water, 1,080; rail.....	1,086
718.2	Shallow lake, water (July 26, 1911), 1,078; rail.....	1,082
719.8	Mefrau lake, water (July 27, 1911), 1,084; rail....	1,094
720.4	Lily lake, water (July 27, 1911), 1,094; rail.....	1,100
722.9	Lennan station.....	1,123
729.7	Nagagami station.....	1,128
731.8	Obakamiga river, water (August 16, 1911), 1,070; rail.....	1,092
736.0	Kamiga station.....	1,093
739.7	Fly lake, water, 1,081; rail.....	1,083
741.2	Summit.....	1,088
743.4	Stoney creek, water (Sept. 7, 1911), 1,027; rail.....	1,047
743.8	Stoney station.....	1,044
745.9	Little Stoney river, water (Sept. 12, 1911), 1,033; rail.....	1,043
747.2	Boundary between Algoma and Thunder Bay districts.....	1,065
751.5	Hills station.....	1,087
753.9	Osawian river, water (Sept. 25, 1911), 1,046; rail.....	1,078
759.6	Osawian station.....	1,051
762.8	White Otter river, water, 982; bed, 977; rail.....	1,003
764.2	Little White Otter river, water, 935; bed, 930; rail.....	980
765.7	White Otter station.....	998
770.5	Cameron station.....	1,077
772.1	Trout creek, bed, 938; rail.....	1,049
774.7	Height-of-land between lake Superior and Hudson bay, ground ..	1,057
774.8	Gamsby station.....	1,055
779.8	Twin Lake station.....	1,130
780.2	Twin lake, water, 1,121; rail.....	1,126
783.5	Bare lake, ice, 1,069; rail.....	1,091
787.1	Arms station.....	1,106
787.5	Lake, ice, 1,093; rail.....	1,106
788.7	Little Cross lake, ice, 1,087; rail.....	1,095
790.0	Gap lake, ice, 1,086; rail.....	1,090
795.0	Tamarac station.....	1,121
798.6	Lake, water, 1,114; rail.....	1,120
802.0	Pagwachuan station.....	1,122
809.2	Rawles station.....	1,099
810.3	Summit, ground, 1,119; rail.....	1,104
816.4	Kenogami station.....	1,034
818.3	Kenogami river, high water, 1,030; water, 1,027; rail.....	1,036
820.8	Sucker creek, ice, 1,062; rail.....	1,060
824.4	Sucker lake, ice, 1,104; rail.....	1,108
824.8	Grassy Lake station.....	1,107
825.2	Grassy lake, ice, 1,097; rail.....	1,103
829.3	Kenogamisis river, ice, 1,082; rail.....	1,087

Miles from Montreal	CANADIAN NORTHERN RAILWAY—MAIN LINE— MONTREAL TO PORT ARTHUR	Elevation above mean sea level
830.0	Devilfish station.....	1,093
833.0	Little Long lake, ice, 1,082; rail.....	1,085
835.6	Small lake, ice, 1,083; rail.....	1,088
837.7	Summit, ground, 1,119; rail.....	1,117
839.5	Jack station.....	1,112
845.8	Gorrie station (height-of-land between lake Superior and Hudson bay) ground, 1,152; rail.....	1,137
846.3	"S" lake, water, 1,125; rail.....	1,129
847.6	Portage lake, water, 1,126; rail.....	1,129
848.8	Wild Goose lake, ice, 1,121; rail.....	1,127
853.0	Gozo station.....	1,139
856.7	Sturgeon river, water, 1,108; rail.....	1,117
860.3	Kinghorn station.....	1,092
867.2	Divide between Blackwater and Sturgeon rivers, ground, 1,112; rail.....	1,101
868.7	Hector station.....	1,088
869.2	Beaver lake, water, 1,069; rail.....	1,081
869.4	Blackwater lake, water, 1,053; rail.....	1,078
872.1	Blackwater river, water, 1,053; rail.....	1,072
873.4	Blackwater river, water, 1,053; rail.....	1,068
873.9	Hazel station.....	1,066
876.0	Slough, water, 1,025; rail.....	1,039
881.5	Jackpine station.....	1,032
882.3	Blackwater river, water, 1,011; high water, 1,014; bed, 995; rail.....	1,028
888.1	Hanning station.....	1,010
889.6	Blackwater river, water, 983; rail.....	995
892.9	Blackwater river, water, 966; rail.....	976
893.3	Blackwater river, water, 964; rail.....	974
893.7	Blackwater station.....	976
902.0	Sand Point station.....	927
909.4	Orient station.....	863
911.6	Lake Nipigon, water (Aug., 1910), 851; rail.....	858
912.7	Crowther station.....	856
916.0	Keemle lake, water (Aug., 1910), 890; rail.....	910
918.4	McKirdy station (summit between lakes Nipigon and Superior)	904
927.2	Ledger station.....	776
933.2	Conmee station.....	744
939.0	Nipigon river, high water, 607; water, 605; bed, 581; rail.....	642
939.9	Booth station.....	637
945.0	Lake Helen, water, 607; rail.....	622
945.3	Canadian Pacific railway, main line, crossing, C.P.Ry., rail, 687; C. N. Ry., rail.....	617
946.3	Nipigon station.....	616
951.5	Crawford station.....	624
955.0	Summit.....	681
956.8	Black Sturgeon river, water, 615; rail.....	665
958.0	Dalziel station.....	675
966.4	Wolf station.....	627
966.8	Coldwater river, water, 604; rail.....	629
968.8	Dorion station.....	667
975.2	Enterprise station.....	737
980.0	Ground, 799; rail.....	784
983.2	Pearl station (summit).....	854
988.8	The Pass station.....	834
989.6	Lake, water, 832; rail.....	837
992.1	Blende river, bed, 666; rail.....	792
994.5	Beulah Iron Mining Co. Ry. crossing.....	746

Miles from Montreal	CANADIAN NORTHERN RAILWAY—MAIN LINE— MONTREAL TO PORT ARTHUR	Elevation above mean sea level
1,001.7	Mackenzie river, water, 602; rail.....	624
1,003.1	Silver Harbour station.....	656
1,009.0	Wild Goose station.....	623
1,013.9	Ground, 678; rail.....	648
1,015.0	Port Arthur, Nelson street.....	627
1,015.6	" " station.....	615.0

Miles from Port Arthur	CANADIAN NORTHERN RAILWAY—MAIN LINE— PORT ARTHUR TO VANCOUVER	
0.0	Port Arthur station.....	615.0
1.0	Canadian Pacific Ry., main line, crossing.....	607.2
3.0	Fort William station.....	612.8
6.1	Westport station.....	629.8
5.2	Canadian Pacific Ry., main line, crossing.....	635.8
13.4	Twin City, junction with North Lake branch.....	723.3
23.4	Kakabeka Falls station.....	915.4
27.0	Hume station.....	945
32.1	Mokomon station.....	1,003.7
36.9	Rowan station.....	1,129
41.8	Matawin river, water, 1,109; rail.....	1,138
42.9	Matawin river, water, 1,133; rail.....	1,152
43.4	Matawin river, water, 1,144; rail.....	1,168
43.6	Matawin river, water, 1,171; rail.....	1,177
44.1	Matawin river, water, 1,183; rail.....	1,199
44.9	Matawin station.....	1,202.0
51.1	Matawin river, high water, 1,207; water (Sept. 5, 1913), 1,201; rail.....	1,218.0
53.6	Shabaqua station.....	1,242.4
55.2	Shebandowan river, high water, 1,289; water (Sept. 16, 1913), 1,281; rail.....	1,295.5
58.7	Maabella station.....	1,442.4
60.5	Annex station.....	1,474.7
63.0	Lake Shebandowan, water, 1,475; rail.....	1,484
64.9	Swamp river, water, 1,476; rail.....	1,486.1
66.7	Rossmere station.....	1,481.8
68.5	Swamp river, water, 1,481; rail.....	1,485
71.1	Mud lake, water, 1,488; rail.....	1,498
75.6	Kabaigon station.....	1,486
77.4	Summit.....	1,543
80.7	Kashabowie river, water (Sept. 18, 1913), 1,501; rail.....	1,516.8
80.9	Portage on Dawson road.....	1,523
82.4	Kashabowie station.....	1,531.2
83.0	Summit.....	1,534
85.2	Crayfish creek, water (Sept. 18, 1913), 1,512; rail.....	1,520.6
85.8	Stream, bed, 1,523; rail.....	1,535
87.4	Creek, bed, 1,541; rail.....	1,544
88.1	Crayfish lake, water, 1,536; rail.....	1,549
89.5	Summit.....	1,562
90.1	Lake, water, 1,539; rail.....	1,549
91.2	Keego station.....	1,541
91.5	Rolling lake, water, 1,535; rail.....	1,540
94.3	Government road crossing.....	1,563
96.6	Forks lake, water.....	1,548
97.1	Height-of-land, ground, 1,580; rail.....	1,570
97.1	Huronian station.....	1,570.9
97.3	Lake, water, 1,565; rail.....	1,570

Miles from
Port ArthurCANADIAN NORTHERN RAILWAY—MAIN LINE—
PORT ARTHUR TO VANCOUVERElevation
above mean
sea level

102.7	Depression.....	1,473
104.7	Windigustigwan lake, water.....	1,443
106.2	Windigo station.....	1,486.4
108.6	Boundary between Rainy River and Thunder Bay districts.....	1,482
111.2	Elbow lake, water, 1,436; rail.....	1,442
114.4	Mink lake, water, 1,428; rail.....	1,440
114.7	Abiwin station.....	1,439.9
120.3	Outlet of Base-line lake, high water, 1,467; rail.....	1,472
121.6	Kawene station (summit), rail.....	1,483.1
127.0	Brook, water, 1,425; rail.....	1,439
128.4	Seventeen-mile creek, bed, 1,382; rail.....	1,399
129.6	Atikokan river, high water, 1,365; ice, 1,363; rail.....	1,374.5
130.4	Atikokan river, high water, 1,365; water (Oct. 9, 1913), 1,360; rail.....	1,370.0
131.7	Hematite station.....	1,368.1
133.1	Summit.....	1,390
134.8	Atikokan river, water (Oct. 14, 1913), 1,356; rail.....	1,368.2
136.5	Atikokan river, ice, 1,352; rail.....	1,357
137.0	Olcott station.....	1,356
139.0	Atikokan river, water (Oct. 15, 1913), 1,346; rail.....	1,355.6
139.9	Atikokan river, water (Oct. 15, 1913), 1,317; rail.....	1,332.4
140.5	Atitokan river, water (Oct. 13, 1913), 1,303; rail.....	1,316.0
142.4	Atikokan station.....	1,281.2
145.5	Steep-rock lake, high water, 1,269; rail.....	1,275
145.8	Overflow station.....	1,280.1
148.6	Summit.....	1,308
152.6	Steep-rock station.....	1,282.6
154.0	Perch lake, high water, 1,260; rail.....	1,269
155.5	Macaulay creek, high water, 1,260; water, 1,254; rail.....	1,277
156.7	Chub lake, water (Jan. 4, 1900), 1,252; high water, 1,259; rail.....	1,265
159.5	Pike lake, water, 1,252; high water, 1,256; rail.....	1,260
160.0	Banning station.....	1,264.0
162.1	Seine river, water, 1,243; high water, 1,249; rail.....	1,258
165.0	Mayflower station (summit), ground, 1,324; rail.....	1,311
166.8	Gale creek, bed, 1,237; rail.....	1,267
167.7	Mills creek, bed, 1,230; rail.....	1,248
171.3	La Seine station.....	1,180.1
173.7	Seine river, low water, 1,142; high water, 1,147; rail.....	1,179.4
176.0	Mathieu station.....	1,214
176.5	Summit, ground, 1,237; rail.....	1,228
181.0	Glenorchy station.....	1,177
185.9	Summit, rail.....	1,201
186.9	Turtle station.....	1,199
190.3	Mine Centre station.....	1,200.7
194.5	Olive station.....	1,192
198.7	Farrington station.....	1,163
207.1	Bears Pass station.....	1,153.5
210.6	Rainy lake, Red-gut crossing, high water, 1,109; low water, 1,102; water (Sept. 9, 1913), 1,108.2; rail.....	1,114
214.6	Nickel Lake station.....	1,119.0
216.5	Sims station.....	1,113.6
223.0	Rocky Inlet station.....	1,136.3
230.3	Duluth junction.....	1,123.1
231.3	Fort Frances station.....	1,122.3
237.3	Crozier station.....	1,164.5
238.4	La Vallée river, East branch, high water, 1,150; water (Sept. 1, 1913), 1,146; rail.....	1,157.3

Miles from
Port ArthurCANADIAN NORTHERN RAILWAY—MAIN LINE—
PORT ARTHUR TO VANCOUVERElevation
above mean
sea level

241.5	La Vallée river, West branch, high water, 1,130; water (Aug. 27, 1913), 1,121; rail.....	1,133.7
241.8	La Vallée station.....	1,134.1
243.8	Devlin station.....	1,149.6
246.1	Summit.....	1,170
251.5	Everett creek, high water, 1,084; water (Aug. 20, 1913), 1,069; rail..	1,106.9
251.6	Emo station.....	1,106.1
258.2	Barwick station.....	1,108.7
260.2	Sturgeon river, water (Aug. 18, 1913), 1,082; rail.....	1,118.3
266.9	Stratton station.....	1,123.6
273.5	Pinewood station.....	1,085.5
274.1	Pine river, high water, 1,067; water (Aug. 11, 1913), 1,061; rail...	1,092.1
279.8	Sleeman station.....	1,103.0
281.0	Summit.....	1,122
285.0	Miller creek, water, 1,064; rail.....	1,099
285.8	Rainy River station, Ont.....	1,088.6
286.1	Rainy river (International boundary), water (July 31, 1913), 1,062; high water, 1,069; rail.....	1,083.9
287.1	Beaudette station, Minn.....	1,084.3
293.9	Pitt station.....	1,113.9
299.0	Graceton station.....	1,140.0
304.8	Williams station.....	1,154.0
311.1	Roosevelt station.....	1,163.8
317.7	Swift station.....	1,086.6
323.6	Warroad river, water (July 8, 1913), 1,061; rail.....	1,070.8
323.8	Warroad station.....	1,070.7
323.8	Great Northern Railway crossing.....	1,070.0
329.0	Longworth station, Minn.....	1,082.1
330.6	International boundary.....	1,077
334.6	Gravel-pit spur, Man.....	1,092
343.3	Sprague station.....	1,072.6
343.6	North branch Roseau river, water (June 24, 1913), 1,058; rail.....	1,072.1
349.2	South junction, with Ridgeville branch.....	1,143.7
354.4	Vassar station.....	1,178
363.2	Badger station.....	1,247
363.9	Summit, ground, 1,260; rail.....	1,255
368.9	Carrick station.....	1,194
369.8	Rat creek, bed, 1,164; rail.....	1,184
371.3	Water tank.....	1,207
374.3	Woodridge station.....	1,233
379.2	Little Rat river, bed, 1,133; rail.....	1,153
381.7	Sandilands station.....	1,161
385.2	Bedford station.....	1,122
388.2	Branch of Seine river, bed, 1,048; rail.....	1,053
391.5	Marchand station.....	1,012
393.0	Northwest branch Seine river, bed, 957; rail.....	971
396.4	Seine river, bed, 931; rail.....	942
398.8	La Broquerie station.....	934
403.9	Giroux station.....	886
410.0	St. Anne station.....	831
410.8	Seine river, high water, 824; water, 814; rail.....	828
416.6	Dufresne station.....	808
423.9	Lorette station.....	794
431.9	Navin station.....	769
435.4	Dawson Road crossing.....	763
436.3	Paddington, junction with Winnipeg and Northern branch and Canadian Pacific railway, Emerson branch, crossing.....	761.8

CANADIAN NORTHERN RAILWAY

245

ation
mean
levelMiles from
Port ArthurCANADIAN NORTHERN RAILWAY—MAIN LINE—
PORT ARTHUR TO VANCOUVERElevation
above mean
sea level

437.8	St. Boniface station.....	763
439.2	Clark Street junction.....	761
439.6	Red River, high water (1882), 755; low water, 730; rail.....	763
440.1	Winnipeg, Fort Garry station.....	773.7
443.2	Portage, junction with Emerson branch.....	765.4
445.3	St. James, junction with Oak Point branch.....	769.0
445.3	Canadian Pacific Ry., La Rivière branch, crossing.....	769.0
448.9	Carman junction, with Winnipeg and Virden line.....	775.8
451.1	St. Charles station.....	786.0
453.6	Headingley station.....	787.2
454.8	Canadian Pacific Ry., Southwestern branch, crossing.....	784.3
456.6	Principal meridian.....	785.3
457.8	Calvin station.....	781.9
461.0	White Plains station.....	789.1
465.5	Dacotah station.....	791.5
471.0	Elie station.....	792.6
475.4	Bernard station.....	797.7
478.5	Willow Range station.....	802.6
482.3	Oakville station.....	816.2
485.6	Newton station.....	826.4
488.7	Curtis station.....	837.6
490.9	Assiniboine river, high water (1904), 841; water (June 17, 1914), 833; rail.....	848
494.9	Grand Trunk Pacific Ry., main line, crossing.....	855.3
495.6	Portage la Prairie station.....	856.6
496.5	Arizona, junction with Portage la Prairie and Regina branch.....	859.5
496.7	Canadian Pacific Ry., main line, crossing.....	860.3
496.8	Delta, junction with Oakland branch.....	860.4
500.8	Walldon station.....	845.0
506.2	Rignold station.....	845.8
510.6	Youill station.....	858.5
514.9	Beaver station.....	866.2
519.4	Katrine station.....	886.9
523.5	Neepawa junction, with Neepawa and Riding Mountain branch.....	914.7
527.5	Golden Stream station.....	887.6
532.7	Gladstone station.....	887.0
533.5	Canadian Pacific Ry., Portage la Prairie and Wetaskiwin, crossing.....	895.2
534.1	Gopher creek, high water, 889; rail.....	894
540.4	Ogilvie station.....	937.3
546.5	Jordan river, high water, 920; rail.....	927
546.6	Plumas station.....	928.0
551.6	Jumping Deer creek, high water, 927; rail.....	929
555.4	Tenby station.....	959.2
558.5	Grassy river, water, 950; rail.....	953
559.9	Glenella station.....	959.6
568.2	Glencairn station.....	978.0
573.9	Turtle river, high water, 955; rail.....	979
578.8	Summit.....	995
580.1	McCreary junction, with Neepawa and Riding Mountain branch.....	995.3
581.1	McCreary station.....	991.5
582.2	Creek, water, 981; rail.....	987
588.7	Laurier station.....	965.7
591.6	Snake creek, water, 967; rail.....	970
597.2	Makinak station.....	972.6
597.6	Creek, high water, 967; rail.....	973
602.3	Kerosene creek, high water, 943; rail.....	947
604.4	Ochre River, junction with St. Rose branch.....	922.2

Miles from
Port ArthurCANADIAN NORTHERN RAILWAY—MAIN LINE—
PORT ARTHUR TO VANCOUVERElevation
above mean
sea level,

605.1	Ochre river, high water, 917; rail.....	920
607.1	Depression, rail.....	907
613.2	Jackfish creek, high water, 943; rail.....	948
617.9	Dauphin, junction with Dauphin and Prince Albert branch.....	968.2
618.1	Vermilion river, low water, 954; high water, 962; rail.....	971
620.9	North junction, Dauphin and Prince Albert switch.....	967.8
626.8	Wilson river, water, 1,024; rail.....	1,053
629.5	Ashville station.....	1,129
635.4	Snyder siding.....	1,283
635.7	Eastman siding.....	1,290
637.9	Gilbert Plains station.....	1,317
647.5	Grand View station.....	1,432
655.0	Meharry station.....	1,619
660.4	Stravel station.....	1,578
663.3	Shortdale station.....	1,584
672.7	Shevlin station.....	1,670
673.0	Shell river, water, 1,648; rail.....	1,667
680.5	Roblin station.....	1,814
687.1	McLean siding.....	1,743
687.6	Leopdale station.....	1,732
692.5	Makaroff station.....	1,863
696.5	Manitoba and Saskatchewan boundary.....	1,835
697.5	Togo station.....	1,828
699.5	Water tank.....	1,808
706.2	Runnymede station.....	1,647
712.7	Côté station.....	1,498
718.8	Kamsa station.....	1,445
719.4	Assiniboine river, bed, 1,405; rail.....	1,435
727.1	Veregin station.....	1,553
735.5	Mikado station.....	1,597
739.1	Ross, junction with Roseburn branch.....	1,600
742.8	Canora, junction with Grand Trunk Pacific Ry., Yorkton branch.....	1,603
750.0	Tiny station.....	1,628
757.3	Buchanan station.....	1,645
759.6	Water tank.....	1,616
768.3	Rama station.....	1,821
776.0	Invermay station.....	1,833
784.1	Margo station.....	1,799
791.1	Kuroki station.....	1,794
794.1	Gravel-pit spur.....	1,769
798.1	Kylemore station.....	1,775
805.6	Wadena station.....	1,773
813.2	Paswegin station.....	1,739
818.3	Clair station.....	1,748
826.8	Quill Lake station.....	1,764
833.4	Wimmer station.....	1,802
839.0	Watson station.....	1,790
844.9	Englefield station.....	1,838
852.4	St. Gregor station.....	1,901
859.9	Muenster station.....	1,888
865.2	Humboldt station.....	1,865
875.7	Carmel station.....	1,892
883.5	Bruno station.....	1,870
890.1	Grand Trunk Pacific Ry., Prince Albert branch, crossing.....	1,894
891.7	Dana station.....	1,903
900.8	Howell station.....	1,824
909.4	Vonda station.....	1,735

CANADIAN NORTHERN RAILWAY

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Miles from
Port ArthurCANADIAN NORTHERN RAILWAY—MAIN LINE—
PORT ARTHUR TO VANCOUVERElevation
above mean
sea level

917.8	Aberdeen station.....	1,698
924.7	Clarkboro station.....	1,633
925.8	South Saskatchewan river, high water, 1,573; low water (May 15, 1905), 1,516; rail.....	1,600
930.8	Warran, junction with Regina and Prince Albert branch.....	1,676.1
939.4	Dalmeny, junction with Carlton branch.....	1,722.4
947.2	Langham station.....	1,706.6
954.8	Ceepee station.....	1,512.2
955.2	North Saskatchewan river, high water, 1,470; low water, 1,453; rail.....	1,509
961.2	Borden station.....	1,636.9
969.0	Radisson station.....	1,721.4
976.3	Fielding station.....	1,808.0
984.0	Maymont station.....	1,941.0
990.8	Ruddell station.....	1,893.2
998.3	Denholm, junction with Shellbrook branch.....	1,804.9
1,006.9	Brada station.....	1,709.4
1,012.8	North Battleford, junction with Sturgeon River branch.....	1,687.1
1,018.9	Battleford junction, with Cutknife branch.....	1,608
1,026.9	Battleford station.....	1,624
1,023.5	Highgate station.....	1,787
1,031.8	Delmas station.....	1,825.0
1,039.0	Bresaylor station.....	1,803.0
1,046.7	Paynton station.....	1,852.8
1,056.1	Birling station.....	1,852.0
1,062.7	Maidstone station.....	1,938.8
1,070.5	Waseca station.....	2,105.1
1,077.1	Lashburn station.....	2,018.5
1,085.4	Marshall station.....	2,014.3
1,091.7	Aberfeldy station.....	2,033.8
1,097.3	Lloydminster station.....	2,119.9
1,104.3	Blackfoot station.....	2,222.4
1,112.1	Kitscoty station.....	2,198.0
1,122.5	Islay station.....	1,999.5
1,130.3	Borradaile station.....	2,039.0
1,137.3	Vermilion station.....	2,029.3
1,144.6	Claysmore station.....	2,067.4
1,151.9	Manville station.....	2,052.7
1,160.2	Minburn station.....	2,086.6
1,169.0	Innisfree station.....	2,228.6
1,177.5	Ranfurly station.....	2,150.8
1,185.5	Lavoy station.....	2,201.6
1,194.5	Vegreville, junction with Battle River branch.....	2,082.2
1,201.3	Raith station.....	2,168.9
1,208.2	Mundare station.....	2,254.1
1,214.8	Hilliard station.....	2,274.5
1,222.5	Chipman station.....	2,196.0
1,229.8	Lamont station.....	2,139.5
1,236.6	Bruderheim station.....	2,074.5
1,243.4	Scotford station.....	2,067.3
1,250.0	Fort Saskatchewan station.....	2,048.0
1,251.2	North Saskatchewan river, flood, 1,996; ordinary high water, 1,977; water (June 24, 1905), 1,974; rail.....	2,04
1,255.6	River Bend station.....	2,116.6
1,259.1	Oliver station.....	2,143.9
1,267.1	Edmonton station.....	2,185.1
1,268.6	Edmonton junction, with Stony Plains branch.....	2,196

Miles from
Port ArthurCANADIAN NORTHERN RAILWAY—MAIN LINE—
PORT ARTHUR TO VANCOUVERElevation
above mean
sea level

1,272.0	Grand Trunk Pacific Ry., main line crossing.....	2,183
1,276.9	*St. Albert, junction with Athabasca branch.....	2,172
1,277.3	Athabaska Branch switch.....	2,176
1,284.9	Villeneuve station.....	2,218
1,288.8	Sturgeon river, bed, 2,154; rail.....	2,192
1,291.3	Calahoo station.....	2,231
1,297.2	Bilby station.....	2,243
1,301.3	Onaway station.....	2,333
1,302.8	Peace River junction, with Peace River branch.....	2,359
1,309.2	Alberta Beach station.....	2,386
1,313.8	Lake St. Anne station.....	2,417
1,320.0	Darwall station.....	2,429
1,320.9	Sturgeon river, bed, 2,388; rail.....	2,412
1,323.5	Bay of Isle lake, water, 2,392; rail.....	2,406
1,333.3	Borlan station.....	2,456
1,339.5	Pembina river, high water, 2,303; ice (Nov. 25, 1908), 2,393; rail.....	2,518
1,339.8	Evansburg station.....	2,518
1,346.1	Lobstick station.....	2,576
1,350.0	Junkins station.....	2,616
1,350.9	Chicken creek, bed, 2,586; rail.....	2,597
1,358.5	Chip Lake station.....	2,596
1,359.1	Grand Trunk Pacific Ry., main line, crossing.....	2,602
1,364.5	Crane creek, bed, 2,675; rail.....	2,703
1,368.1	Dayman station.....	2,737
1,368.9	Little Lobstick river, bed, 2,718; rail.....	2,741
1,371.6	Lobstick river, bed, 2,747; rail.....	2,775
1,376.0	Carrot station.....	2,816
1,377.1	Carrot river, high water, 2,804; rail.....	2,842
1,380.4	Carrot river, bed, 2,839; rail.....	2,855
1,381.6	Fulstow station.....	2,857
1,389.1	Summit, ground, 0.1 mile east, 3,033; rail.....	3,017
1,391.8	Horner station.....	2,953
1,392.7	Wolf creek, high water, 2,887; low water, 2,880; rail.....	2,931
1,396.5	Scriven station.....	2,984
1,403.4	McLeod river, high water, 2,903; low water, 2,894; rail.....	3,006
1,404.0	Tollerton station.....	3,014
1,408.8	Grand Trunk Pacific Ry., main line crossing, G.T.P. Ry., rail, 3,066; C.N. Ry., rail.....	3,033
1,410.8	Hornbeck creek, bed, 3,015; rail.....	3,040
1,411.6	Sundance station.....	3,046
1,416.0	Creek, water, 3,126; rail.....	3,151
1,418.3	Dandurand station.....	3,199
1,418.8	White-mud creek, water, 3,143; rail.....	3,189
1,425.0	Birke station.....	3,329
1,432.0	Everest station.....	3,449
1,438.7	Summit, ground, 3,588; rail.....	3,575
1,439.1	Obed station.....	3,562
1,443.1	Camp Creek, bed, 3,398; rail.....	3,472
1,448.0	Dalehu station.....	3,355
1,452.4	Trail creek, bed, 3,166; rail.....	3,252
1,456.5	Bliss station.....	3,743
1,457.2	Hardisty creek, bed, 3,214; rail.....	3,234
1,462.0	Prairie creek, bed, 3,170; rail.....	3,173
1,464.0	Athabaska river, high water, 3,174; ordinary water, 3,168; water (Jan. 29, 1912), 3,166; rail.....	3,216
1,465.4	Heda station.....	3,216
1,470.3	Solomon station.....	3,248

*Not operated (Dec., 1914), west of St. Albert

CANADIAN NORTHERN RAILWAY

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Miles from
Port ArthurCANADIAN NORTHERN RAILWAY—MAIN LINE
PORT ARTHUR TO VANCOUVERElevation
above mean
sea level

1,471.3	Solomon creek, bed, 3,226; rail	3,248
1,471.8	Brûlé lake, high water, 3,232; water, 3,229; rail	3,236
1,475.6	Brûlé station	3,265
1,480.6	Bay of Athabaska river, high water, 3,237; water, 3,234; rail	3,243
1,482.4	Bedson station	3,269
1,484.0	Bay of Athabaska river, high water, 3,245; water, 3,249; rail	3,251
1,486.0	Stony river, high water, 3,256; water, 3,249; rail	3,265
1,488.9	Devona station	3,304
1,494.4	Jasper lake, high water, 3,285; ice (Jan., 1912), 3,278; rail	3,290
1,494.9	Snaring station	3,290
1,499.9	Snaring river, bed, 3,318; rail	3
1,502.0	Henry House station	
1,503.0	Grand Trunk Pacific Ry., main line, crossing, G. T. P. Ry., rail, 3,347; C.N. Ry., rail	
1,506.6	Maligne station	3,350
1,511.2	Jasper Park station	3,456
1,513.8	Miette river, bed, 3,425; rail (From mile 1,516.7 to 1,519.2, the track is on same right of way as Grand Trunk Pacific.)	3,474
1,523.7	Mount Geikie station	3,631
1,527.9	Summit of Rocky mountains—Arctic and Pacific divide—Yellow- head pass, ground, 3,728; rail	3,712
1,529.8	Grade	3,674
1,533.4	Yellowhead station	3,650
1,534.6	Yellowhead river, bed, 3,590; rail	3,617
1,535.3	Fraser river, bed, 3,548; rail	3,594
1,537.0	Chita creek, bed, 3,529; rail	3,543
1,538.4	Fraser river, bed, 3,492; rail	3,521
1,540.8	Grade	3,460
1,541.8	Grant Creek station	3,455
1,542.3	Grant creek, bed, 3,446; rail	3,453
1,543.5	Slough, bed, 3,407; rail	3,427
1,545.1	Moose river, bed, 3,402; rail (From mile 1,545.8 to 1,555.4, the track is on same right of way as the Grand Trunk Pacific.)	3,413
1,549.2	Rainbow station	3,394
1,552.9	Moose lake, extreme high water, 3,393; high water, 3,390; ice, (Feb. 1, 1912), 3,385; water (April 4, 1914)	3,383
1,556.8	Moose Lake station	3,418
1,557.5	Grade	3,422
1,559.3	Tunnel, east portal, rail, 3,363; west portal, rail	3,355
1,561.8	Glacier creek, bed, 3,241; rail	3,277
1,562.4	Siding No. 4	3,251
1,563.1	Snowalide creek, bed, 3,184; rail	3,233
1,566.6	Cliff creek, bed, 3,054; rail	3,124
1,567.7	Bear creek, bed, 2,989; rail	3,087
1,568.7	Bear Creek station	3,061
1,570.8	Grade	3,001
1,572.8	Grade	2,933
1,576.4	Tête Jaune Cache station	2,826
1,577.7	Creek, bed, 2,778; rail	2,798
1,579.1	Creek, bed, 2,742; rail	2,748
1,581.2	Creek, bed, 2,686; rail	2,695
1,582.6	Creek, bed, 2,619; rail	2,625
1,583.9	Siding No. 7	2,608
1,585.5	Swift creek, high water, 2,594; ice (Feb. 24, 1913), 2,591; rail	2,611
1,588.0	Cranberry lake, high water, 2,591; ice (Dec. 23, 1912), 2,590; rail	2,611
1,591.9	Canoe river, high water, 2,592; ice (Jan. 20, 1913), 2,583; rail	2,687

Miles from
Port ArthurCANADIAN NORTHERN RAILWAY—MAIN LINE—
PORT ARTHUR TO VANCOUVERElevation
above mean
sea level

1,594.3	Canoe River station	2,721
1,594.8	Creek, bed, 2,672; rail	2,731
1,597.6	Creek, bed, 2,758; rail	2,783
1,599.6	Summit creek, high water, 2,787; bed, 2,782; rail	2,811
1,600.5	Summit creek, high water, 2,816; rail	2,829
1,602.4	Albreda station (Albreda summit)	
	By levels from Winnipeg	2,863
	By levels from Vancouver	2,870
1,603.7	Albreda lake, water (Nov., 1911), 2,852; rail	2,859
1,604.4	Albreda river, water, 2,840; rail	2,848
1,607.4	Albreda river, bed, 2,744; rail	2,760
1,608.0	Clemina station	2,753
1,614.5	Tunnel, rail	2,566
1,617.7	Aparejos station	2,445
1,622.5	North Thompson river, water (Aug., 1912), 2,322; rail	2,346
1,625.1	Pyramid Creek station	2,312
1,626.9	North Thompson river, water (May, 1912), 2,283; high water (1894), 2,298; rail	2,306
1,630.5	North Thompson river, water (April, 1912), 2,261; high water (1894), 2,278; rail	2,280
1,634.8	Thunder Creek station	2,263
1,638.8	North Thompson river, water (Mar., 1912), 2,217; rail	2,231
1,643.5	Blue river, low water, 2,220; rail	2,238
1,644.2	Blue River station	2,243
1,647.7	North Thompson river, water (Jan., 1912), 2,181; rail	2,194
1,647.8	Trout Creek station	2,193
1,651.2	North Thompson river, water (Jan., 1912), 2,165; rail	2,180
1,651.6	Canoe Landing station	2,175
1,655.6	Hell Gate tunnel, rail	2,107
1,657.5	*Hell Gate station	2,078
1,659.5	North Thompson river, high water, 1,910; low water, 1,903; rail	1,970
1,662.9	Cottonwood station	1,957
1,663.1	North Thompson river, high water (1894), 1,908; ordinary high water, 1,898; low water, 1,892; rail	1,909
1,664.1	Cottonwood flats, rail	1,905
1,668.8	Avola station	1,900
1,673.1	North Thompson river, high water, 1,888; low water, 1,880; rail ..	1,900
1,673.6	Wire Cache station	1,896
1,676.2	North Thompson river, water, 1,839; high water (1911), 1,843; rail ..	1,871
1,679.1	Irving bluff, ground, 1,877; rail	1,830
1,681.1	Round Prairie station	1,789
1,687.3	Mad River station	1,690
1,687.4	North Thompson river, crossing, water (Sept. 14, 1911), 1,617; high water (1894), 1,621; rail	1,685
1,691.0	Irvine station	1,636
1,694.3	Ravine, bed, 1,531; rail	1,578
1,696.8	Vavenby station	1,541
1,701.9	Hull station	1,453
1,703.1	North Thompson river (Birch Island bridge), water (Oct., 1911), 1,396; high water (1894), 1,407; rail	1,430
1,705.2	Birch Island station	1,392
1,711.0	Government Ferry station	1,331
1,717.6	Mosquito station	1,307
1,720.1	Blackpool P.O., rail	1,294
1,723.4	North Thompson river, low water, 1,273; high water, 1,280; rail ..	1,293
1,726.5	Boulder Creek station	1,286
1,734.7	Chuchua station	1,277

*Names of many of these stations will be changed.

Miles from
Port ArthurCANADIAN NORTHERN RAILWAY—MAIN LINE—
PORT ARTHUR TO VANCOUVERElevation
above mean
sea level

1,738.1	Chuchua Indian reserve, east boundary.....	1,277
1,737.6	Indian village, rail.....	1,254
1,740.6	Chuchua Indian reserve, west boundary.....	1,258
1,741.8	Genier station.....	1,253
1,746.1	Grade.....	1,263
1,747.1	Barrier river, low water, 1,231; high water, 1,238; rail.....	1,246
1,748.1	Grade.....	1,252
1,748.8	North Thompson river, high water, 1,228; water, 1,223; rail.....	1,237
1,752.1	Louis Creek station.....	1,229
1,760.3	Josephine station.....	1,185
1,767.1	Grade.....	1,192
1,768.6	Heffley Creek station.....	1,182
1,776.0	St. Paul station.....	1,169
1,783.1	Kamloops junction, with Kamloops branch (projected).....	1,150
1,783.9	North Thompson river crossing, high water (1894), 1,140; ordinary high water, 1,125; low water, 1,116; rail.....	1,153
1,791.2	Tranquille station.....	1,180
1,796.9	Frederick station.....	1,168
1,803.1	Kamloops lake, high water (1894), 1,135; low water.....	1,102
1,804.0	Copper Creek station.....	1,169
1,808.9	Savona station.....	1,171
1,812.0	Deadman creek, rail.....	1,132
1,812.4	Thompson river, crossing No. 7, high water (1894), 1,120; low water, 1,091; rail.....	1,131
1,815.9	Walhachin station.....	1,084
1,817.5	Thompson river, crossing No. 6, high water (1894), 1,069; low water, 1,047; rail.....	1,084
1,819.6	Anglesey station.....	1,075
1,824.2	McAbce station.....	1,029
1,824.6	Thompson river, water (Nov., 1911).....	1,006
1,825.1	Tunnel No. 31, rail.....	1,032
1,829.3	Thompson river, crossing No. 5, high water (1894), 987; low water, 968; rail.....	1,007
1,831.1	Thompson river, crossing No. 4, high water, 972; low water, 951; rail.....	992
1,831.8	Ashcroft station.....	993
1,835.1	Tunnel, rail.....	950
1,838.1	Thompson river, crossing No. 3, high water (1894), 908; high water (June, 1912), 893; low water (Nov., 1911), 876; rail.....	923
1,842.9	Thompson river, crossing No. 2, high water (1894), 867; low water, 845; rail.....	892
1,848.6	Minnabarriet station.....	851
1,852.4	Martel station.....	801
1,855.1	Thompson river, high water (1911), 749; rail.....	769
1,858.2	Spence Bridge station.....	738
1,859.2	Mud slide, rail.....	728
1,862.4	Skoonko station.....	724
1,862.8	Thompson river, high water (1911), 690; rail.....	721
1,864.0	Thompson river, high water (1911), 677; rail at tunnel.....	707
1,864.9	Drynoch clay bluffs, rail.....	704
1,866.5	Drynoch station.....	699
1,874.4	Rattlesnake Flat.....	624
1,874.8	Tunnel, rail.....	624
1,881.1	Thompson river, crossing No. 1, high water (1894), 510; high water (1900), 492; low water, 447; rail.....	567
1,881.2	Lytton station.....	566
1,882.6	Fraser river, crossing No. 2, high water (1894), 506; ordinary high water, 473; low water, 436; rail.....	562

Miles from Port Arthur	CANADIAN NORTHERN RAILWAY—MAIN LINE— PORT ARTHUR TO VANCOUVER	Elevation above mean sea level
1,887.1	Fraser river, crossing No. 1, flood (1894), 478; water (June, 1912), 431; water (Aug., 1911), 423; extreme low water, 402; rail..	600
1,887.2	Canadian Pacific Ry., main line, crossing, C.P.Ry., rail, 539; C.N.Ry., rail.....	600
1,887.4	Cisco station.....	602
1,893.5	Falls Creek station.....	603
1,893.9	Waterfall creek, bed, 521; rail.....	603
1,896.5	Tilton creek, water tunnel, low water, 433; rail.....	593
1,896.7	Tilton Creek station.....	593
1,898.7	Inkitsaph station.....	565
1,902.8	Boothroyd station.....	517
1,903.7	Nine-mile creek, high water, 383; rail.....	514
1,907.1	Stayoma creek, high water (1894), 372; ordinary high water, 342; rail.....	464
1,909.1	Boston Bar station.....	450
1,911.3	Anderson creek, high water (1894), 348; ordinary high water, 340; rail.....	435
1,918.1	Tunnel No. 12, rail.....	387
1,918.6	Hyu-skookum creek, bed, 305; rail.....	393
1,919.3	Black cañon (Yelakin Indian reserve), rail.....	393
1,921.6	Chapman Bar station.....	353
1,925.9	Cultus creek, high water (1894), 238; ordinary high water, 212; rail.....	291
1,927.2	Saddle Rock station.....	279
1,931.1	Hole-in-the-wall tunnels, west portal, rail, 236; east portal, rail..	241
1,935.9	Yale station.....	218
1,940.9	Squeah station.....	184
1,944.4	Tunnel, rail.....	159
1,944.9	Trafalgar Bar station.....	160
1,949.1	Coquihalla river, water, 155; rail.....	162
1,949.4	Hope station.....	154
1,949.9	Fraser river, high water (1911), 120; rail.....	139
1,953.0	Flood station.....	117
1,958.7	St. Elmo station.....	94
1,963.1	Riley station.....	99
1,966.9	Popkum station (Fraser river, opp., water, 62); rail.....	78
1,969.9	Cheam station.....	78
1,974.2	Rosedale station.....	50
1,980.7	Chilliwack station.....	34
1,983.1	Chilliwack river, water, 18; rail.....	33
1,985.5	Arnold station.....	33
1,986.4	Junction with Victoria, Vancouver, and Eastern Ry.....	31
1,988.1	Sumas river, water (Oct., 1910), 7; rail.....	27
1,991.4	Sumas station.....	34
1,996.4	Matsqui station.....	22
1,997.3	Canadian Pacific Ry., Mission branch, crossing.....	23
2,001.4	Mount Lehman station.....	29
2,006.9	Glen Valley station.....	22
2,012.2	Langley station.....	22
2,016.2	Port Kells station.....	24
2,022.9	Port Mann station.....	13
*2,026.9	†Fraser river (tidewater), floor of road bridge, 61.2; ordinary high tide, 6; springs, 8.7; rail.....	33.9
2,027.0	New Westminster station.....	34

*3,040.7 miles from Montreal.

†Between Fraser river and Vancouver, the line is not finally located.

Miles from
Twin CityCANADIAN NORTHERN RAILWAY—NORTH LAKE
BRANCHElevation
above mean
sea level

0.0	Twin City, junction with main line, 13.4 miles from Port Arthur	723.3
0.3	Slate River station	727
6.4	Stanley, junction with old main line, 19.8 miles from Port Arthur	720.6
7.7	Kaministiquia river, water, 689; rail	716
11.8	Whitefish river, bed, 750; rail	765
13.9	Silver Creek station	806
15.9	Murdoch station (closed)	876
18.8	Whitefish river, bed, 934; rail	942
20.0	Whitefish river, bed, 988; rail	999
22.2	Whitefish river, bed, 1,088; rail	1,094
23.7	Beaver Dam creek, bed, 1,149; rail	1,161
26.4	Silver Mountain station	1,281
29.1	Whitefish lake, water	1,329
29.4	Whitefish station	1,347
34.5	Brook, bed, 1,423; rail	1,444
39.6	Summit, ground and rail	1,551
40.7	Sand river, bed, 1,531; rail	1,538
43.0	Sand lake, water, 1,537; rail	1,540
51.7	Summit, ground, 1,696; rail	1,691
53.3	Lake, water, 1,606; rail	1,610
54.4	Addie lake, water, 1,604; rail	1,608
56.4	North Lake station	1,571
61.6	North lake, water, 1,548; rail	1,561
66.7	Summit, ground and rail	1,626
69.4	Gunflint lake, water, 1,544; rail	1,552
72.9	Gunflint station	1,568

Miles from
South Junc.CANADIAN NORTHERN RAILWAY—RIDGEVILLE
BRANCH

0.0	South Junction, with main line, 349.2 miles from Port Arthur	1,143.7
3.4	Wampum station	1,162.9
10.9	Piney station	1,086.5
18.4	Menisino station	1,114.9
24.7	Sundown station	1,064.3
32.0	Caliento station	1,031.5
39.0	Vita station	991.1
46.2	Stuartburn station	980.9
52.0	Tolstoi station	958.3
61.4	Ridgeville station	821.0
64.6	Fredensthal station	795.3
70.8	Canadian Pacific Ry., Emerson branch, crossing	*792.8
71.1	Great Northern Ry. junction	792.4
71.6	Emerson station	790.6

Miles from
WinnipegCANADIAN NORTHERN RAILWAY—EMERSON
BRANCH

0.0	Winnipeg, Fort Garry station	773.7
3.1	Portage, junction with main line, 443.2 miles from Port Arthur	765.4
9.3	St. Norbert station	768
15.3	Cartier station	771
23.6	Ste. Agathe station	780
27.3	Union Point station	782
32.5	Silver Plains station	782

*By levels of Dept. of Public Works, 792.4.

Miles from
WinnipegCANADIAN NORTHERN RAILWAY—EMERSON
BRANCHElevation
above mean
sea level

40.3	Morris, junction with Miami branch.....	779
40.9	Morris river, high water, 772; low water, 745; rail.....	777
46.9	St. Jean Baptiste station.....	782
56.3	Letellier station.....	790
56.6	Rivière aux Marais, high water, 782; rail.....	785
61.4	Christie station.....	794
65.1	Emerson junction, with Northern Pacific railway.....	795
66.0	Red river, high water, 792; low water, 753; rail.....	797
66.5	Emerson station.....	790.6

Miles from
WinnipegCANADIAN NORTHERN RAILWAY—WINNIPEG
AND NORTHERN BRANCH

0.0	Winnipeg, Fort Garry station.....	773.7
3.8	Paddington, junction with main line.....	761.8
7.8	Transcona, junction with Bird Hill spur.....	767
9.3	Canadian Pacific Ry., east-bound main line, c. ssing.....	773
13.4	Canadian Pacific Ry., west-bound main line, crossing.....	763
19.9	Grade.....	764
22.4	Siding.....	759
22.8	Gunn creek, bed, 745; grade.....	760
28.5	Cook creek, ice (Dec. 19, 1910), 715; grade.....	742
28.9	East Selkirk station.....	741
35.0	Siding.....	742
37.0	Devil creek, ice (Dec. 23, 1910), 714; rail.....	732
39.4	Siding (summit).....	741
46.0	Lake Winnipeg, extreme high water (Oct., 1893), 722; normal level (1908), 714; (1910), 713; water (Sept., 1911), 716; rail.....	726
47.5	Siding.....	730
47.7	Brokenhead river, high water, 719; ice (Jan. 2, 1911), 715; rail.....	728
57.1	Summit, sec. 32, tp. 17, R. 7, E.P.M.....	785
57.7	Siding.....	768
61.7	Siding.....	722

Projected Extension

69.1	Grade.....	844
75.0	Victoria Beach station ground.....	738

Miles from
MorrisCANADIAN NORTHERN RAILWAY—MIAMI
BRANCH

0.00	Morris, junction with Emerson branch, 40.3 miles from Winnipeg	779
0.24	Canadian Pacific Ry., La Rivière branch, crossing.....	779
4.20	Crossing Principal meridian.....	784
10.00	Lowe station.....	797
21.11	Myrtle station.....	833
25.86	Roland station.....	860
26.29	Great Northern Ry., Portage la Prairie branch, crossing.....	862
33.68	Rosebank station.....	915
39.60	Miami station.....	1,017
40.36	South branch Tobacco creek, bed, 1,023; rail.....	1,043
44.66	Drivers ravine, bed, 1,183; rail.....	1,219
49.11	Deerwood station.....	1,419
54.37	Altamont station.....	1,594
56.21	Summit, rail.....	1,631
62.25	Somerset, junction with Winnipeg and Virden line.....	1,570

Miles from
WinnipegCANADIAN NORTHERN RAILWAY—WINNIPEG
AND VIRDENElevation
above mean
sea level

0.0	Winnipeg, Fort Garry station.....	773.7
8.8	Carman junction, with main line.....	775.8
14.3	Oak Bluff station.....	780
22.1	Sanford station.....	781
23.1	Crossing Principal meridian.....	784.1
30.6	Brunkild station.....	784
38.9	Sperling station.....	798
46.0	Homewood station.....	831
52.4	Carman station.....	880
53.0	Great Northern Ry., Portage la Prairie branch, crossing.....	883
59.2	Gray station.....	930
63.6	Stephenfield station.....	981
67.8	Roseisle station.....	914
72.0	Leary, junction with Notre Dame de Lourdes spur.....	1,144
82.2	Notre Dame de Lourdes.....	1,559
79.8	Cardinal station.....	1,522
87.7	Somerset, junction with Miami branch.....	1,570
93.6	Swan Lake station.....	1,581
99.9	Indian Springs station.....	1,476
104.5	Marieapolis station.....	1,495
111.4	Greenway, junction with Wakopa branch.....	1,406
111.5	Wakopa branch switch.....	1,402
117.4	Baldur station.....	1,413
127.3	Belmont station.....	1,473
130.4	Hartney junction, with Wawanesa branch.....	1,438
139.8	Ninette station.....	1,368
144.4	Dunrea station.....	1,503
150.1	Margaret station.....	1,547
157.5	Minto, Great Northern Ry., Brandon branch, crossing.....	1,598
162.5	Fairfax station.....	1,574
168.9	Elgin station.....	1,535
174.2	Underhill station.....	1,502
176.9	Argue station.....	1,483
181.2	Hartney station.....	1,428
181.2	Canadian Pacific Ry., Souris branch, crossing.....	1,427
190.0	Grande Clarière station.....	1,429
195.2	Findlay, Canadian Pacific Ry., Schwitzer and Regina branch, crossing.....	1,423
199.2	Belleview station.....	1,428
203.0	Water tank.....	1,437
205.1	Agnew station.....	1,440
209.5	Scarth, junction with Portage la Prairie and Regina line.....	1,428
214.6	Maples station.....	1,435
218.2	Virden station.....	1,451

Miles from
GreenwayCANADIAN NORTHERN RAILWAY—WAKOPA
BRANCH

0.0	Greenway, junction with Winnipeg and Virden line.....	1,406
8.9	Glenora station.....	1,499
17.8	Neelin station.....	1,365
22.9	Louise station.....	1,526
28.2	Canadian Pacific Ry., La Rivière branch, crossing.....	1,543.7
28.7	Holmfield station.....	1,555
33.4	Enterprise station.....	1,647

Miles from Greenway	CANADIAN NORTHERN RAILWAY—WAKOPA BRANCH	Elevation above mean sea level
38.8	Lena station.....	1,806
47.1	Wakopa station.....	1,851
47.6	Great Northern Ry., Brandon branch, crossing.....	1,855
51.8	Adelpha station.....	1,886
<i>Extension—Not operated</i>		
57.6	Station ground.....	1,899
62.9	Wassewa station.....	1,855
67.9	Station ground.....	1,879
71.7	Station ground.....	1,837
74.0	Spur, head-block.....	1,759
77.2	Station ground.....	1,668
79.7	Deloraine station ground.....	1,642
Miles from Hartney	CANADIAN NORTHERN RAILWAY—WAWANESA BRANCH	
0.0	Hartney junction, with Winnipeg and Virden line.....	1,438
4.5	Hilton station.....	1,375
9.1	Ashdown station.....	1,348
12.5	Spring brook, water, 1,277; rail.....	1,295
13.9	Top of bluff, right bank of Souris river.....	1,265
14.9	Wawanesa station.....	1,213
15.3	Souris river, high water, 1,148; rail.....	1,192
16.8	Top of bluff, left bank of Souris river.....	1,313
17.6	Elliott station.....	1,319
19.8	Merhven, Canadian Pacific Ry., Southwestern branch, crossing.....	1,315
20.8	Reid station (summit).....	1,340
24.4	Rounthwaite (Naughton) station.....	1,312
29.8	Little Souris river, bed, 1,206; rail.....	1,220
32.3	Martinville station.....	1,221
38.0	M. & B. junction, with Portage la Prairie and Regina line.....	1,259
39.5	Brandon, First street.....	1,265
39.8	" Sixth St., junction with Portage la Prairie and Regina line.....	1,265
40.3	" station.....	1,260
Miles from Winnipeg	CANADIAN NORTHERN RAILWAY—OAK POINT BRANCH	
0.0	Winnipeg, Fort Garry station.....	773.7
5.4	St. James, junction with main line.....	769.0
7.5	Assiniboine river, high water, 757; low water.....	739
7.8	Canadian Pacific Ry., main line, crossing.....	785
13.4	Moore station.....	784
19.1	Gordon station.....	791
25.6	Grosse Isle, junction with Grosse Isle branch.....	807
32.0	Warren station.....	814
39.2	Woodlands station.....	837
46.4	Water tank.....	883
48.5	Lake St. Francis station.....	879
58.5	St. Laurent station.....	816
65.8	Oak Point station.....	816
72.6	Clarkleigh station.....	819
79.2	Lundar station.....	843
85.2	Deerhorn station.....	863
91.6	Eriksdale station.....	872

CANADIAN NORTHERN RAILWAY

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Elevation
above mean
sea levelMiles from
WinnipegCANADIAN NORTHERN RAILWAY—OAK POINT
BRANCHElevation
above mean
sea level806
851
855
886899
855
879
837
759
568
542

99.8	Mulvihill station.....	882
107.7	Camper station.....	882
116.4	Ashern station.....	883
124.6	Moosehorn station.....	867
133.7	Deerfield station.....	839
137.5	Steepprock junction, with Steepprock spur.....	816
146.9	Steepprock, end of spur.....	819
141.1	Hilbre station.....	837
148.7	Fairford station.....	826
149.3	Fairford river, water, 803; rail.....	817
156.5	St. Martin station.....	806
162.1	Gypsumville station.....	854
162.9	End of steel.....	846

Miles from
Grosse IsleCANADIAN NORTHERN RAILWAY—GROSSE ISLE
BRANCH438
475
448
495
465
413
492
413
419
415
440
412
420
421
459
465
460

0.0	Grosse Isle, junction with Oak Point branch.....	807
0.1	Junction switch.....	814
7.7	Argyle station.....	824
14.4	Woodroyd station.....	880
21.0	Erinview station.....	890
30.7	Inwood station.....	905
34.0	Ground, S.E. 23-18-1, W.P.M.....	908
35.9	Siding.....	916
39.0	Ground, S.E. 15-19-1, W.P.M.....	898
42.7	Siding.....	899
44.3	Ground, S.E. 9-20-1, W.P.M.....	924
49.3	Ground, S.E. 5-21-1, W.P.M.....	907
50.6	Siding.....	905
54.0	Ground, N.W. 30-21-1, W.P.M.....	885
57.0	Siding.....	888
59.0	Ground, S.W. 24-22-2, W.P.M.....	865
64.5	Siding.....	880
69.0	Ground, N.E. 2-24-2, W.P.M.....	824
71.6	Siding.....	805
73.7	Ground, S.E. 36-24-2, W.P.M.....	799
80.7	Siding, end of steel.....	742

Miles from
Portage
la PrairieCANADIAN NORTHERN RAILWAY—OAKLAND
BRANCH73.7
69.0
39
85
84
91
07
14
37
83
79
16
16
19
43
63
72

0.0	Portage la Prairie, junction with main line, 495.6 miles from Port Arthur.....	856.6
1.1	Canadian Pacific Ry., main line, crossing.....	860.3
1.2	Delta junction.....	860.4
4.1	Alpha station.....	850.7
7.3	Townline station.....	831.2
10.3	Oakland, junction with Delta spur.....	824.8
12.4	Huddleston station.....	821.6
14.8	Delta station.....	817.2
	Lake Manitoba, water (June 27, 1914), 814.4; high water.....	816
13.1	Fulton station.....	828
17.1	Longburn station.....	832

Miles from
Portage
la PrairieCANADIAN NORTHERN RAILWAY—OAKLAND
BRANCHElevation
above mean
sea level

22.6	Cawdor station.....	826
25.6	Totogan junction, with Totogan spur.....	825
27.6	Totogan station	820
31.5	Lakeland station.....	835
39.7	Langruth station.....	881
46.0	Grade.....	877
53.0	Amaranth station	889

Miles from
Portage
la PrairieCANADIAN NORTHERN RAILWAY—PORTAGE
LA PRAIRIE AND REGINA

0.0	Portage la Prairie, junction with main line, 495.6 miles from Port Arthur	856.6
0.9	Arizona junction, main line switch.....	859.5
1.0	Grand Trunk Pacific Ry., main line, crossing.....	860
1.4	Canadian Pacific Ry., main line, crossing.....	860
5.5	McArthur station.....	902
11.9	Edwin station.....	965
18.3	Kosserdale station.....	1,004
23.5	Lavenham station.....	1,167
28.7	Ladysmith station.....	1,214
32.5	Pratt station.....	1,204
36.4	Gateside station.....	1,218
39.9	Arizona station.....	1,239
45.2	Pleasant Point station.....	1,238
52.5	Brandon junction, with Carberry branch.....	1,231
59.9	Onah station.....	1,222
67.5	Shilo station.....	1,236
73.2	Assiniboine river, high water, 1,193; water (July 16, 1904), 1,184; rail.....	1,205
75.4	Leon station.....	1,209
77.0	M. & B. junction, with Wawanesa branch.....	1,259
78.5	Brandon, First street	1,265
78.8	“ Sixth street.....	1,265
79.3	“ station.....	1,260
83.6	Great Northern Ry., Brandon branch, crossing.....	1,304
86.8	Villette station.....	1,367
90.4	Canadian Pacific Ry., Souris branch, crossing.....	1,396
94.3	Merle station.....	1,397
99.2	Terence station.....	1,424
104.8	Ralston station.....	1,407
111.8	Algar station.....	1,417
118.3	Maon station.....	1,423
126.5	Scarth, junction with Winnipeg and Virden line.....	1,428
132.4	Woodnorth station.....	1,540
139.4	Cromer station.....	1,539
146.8	Butler station.....	1,755
155.3	Maryfield, junction with Moose Jaw branch.....	1,905
162.7	Fairlight station.....	1,948
168.7	Doonside station.....	1,974
176.2	Kelso station.....	2,090
183.9	Vanduro station.....	2,206
192.5	Langbank station.....	2,183
200.3	Hawthorne station.....	2,162
207.2	Kipling station	2,163
213.8	Dalzell station.....	2,179

CANADIAN NORTHERN RAILWAY

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Miles from
Portage
la PrairieCANADIAN NORTHERN RAILWAY—PORTAGE
LA PRAIRIE AND REGINAElevation
above mean
sea level

220.2	Carlsberg station.....	2,239
222.2	Kaiser, Canadian Pacific Ry., Reston and Wolseley branch, crossing	2,273
223.9	Water tank.....	2,280
225.4	Lovat station.....	2,273
232.0	Glenavon station.....	2,248
237.3	Candiac station.....	2,251
246.0	Montmartre station.....	2,209
254.0	Kendal station.....	2,175
261.9	Odessa station.....	2,163
265.9	Water tank.....	2,178
269.9	Vibank station.....	2,197
277.8	Davin station.....	2,172
286.0	Jameson station.....	2,013
293.3	Drighorn station.....	1,940
299.7	McCallum, junction with Canadian Pacific Ry., Schwitzer and Regina branch.....	1,896
300.5	Regina, Canadian Pacific Ry., station.....	1,896.4

Miles from
MaryfieldCANADIAN NORTHERN RAILWAY—MOOSE JAW
BRANCH

0.0	Maryfield, junction with Portage la Prairie and Regina line, 155.3 miles from Portage la Prairie.....	1,905
0.1	Canadian Pacific Ry., Reston and Wolseley branch, crossing	1,903
3.0	Water tank.....	1,916
7.2	Ryerson station.....	1,949
13.2	Mair station.....	2,021
19.7	Parkman station.....	2,098
24.6	Summit.....	2,174
26.5	Service station.....	2,144
29.0	Grade.....	2,174
30.4	Cowper station.....	2,143
32.0	Summit.....	2,163
36.7	Canadian Pacific Ry., Schwitzer and Regina branch, crossing.....	2,080
37.2	Carlyle station.....	2,070
40.1	Water tank.....	2,016
45.9	Wordsworth station.....	1,983
52.3	Willmar station.....	1,961
60.2	Browning station.....	1,958
67.6	Lampman station.....	1,948
68.2	Grand Trunk Pacific Ry., Regina and Boundary branch, crossing	1,944
68.4	Luxton, junction with Bienfait branch.....	1,947
73.0	Summit.....	1,961
76.0	Cullen station.....	1,955
83.1	Bryant station.....	1,959
89.3	Blewett station.....	1,930
94.8	Canadian Pacific Ry., Portal branch, crossing	1,891.6
97.4	Chandler station.....	1,904
102.4	Elswick station.....	1,875
106.0	Souris river, water, 1,768; bed, 1,764; rail.....	1,793
106.7	Rough Bark creek, water, 1,770; rail.....	1,793
108.5	Jewel creek, high water, 1,805; rail.....	1,831
109.0	Jewel creek, high water, 1,869; water, 1,859; rail.....	1,877
111.7	Goodwater station.....	1,896
120.2	Colgate station.....	1,998
127.0	Webster station.....	2,028

Miles from Maryfield	CANADIAN NORTHERN RAILWAY—MOOSE JAW BRANCH	Elevation above mean sea level
132.1	Canadian Pacific Ry., survey line for Neptune Branch extension	2,052
133.7	Souris Valley station	2,060
135.4	Summit	2,073
139.8	Radville, junction with Bengough branch	2,068
141.0	Moose Jaw junction, Bengough Branch switch	2,084
142.7	Stream, bed, 2,060; rail	2,083
149.2	Abbott station	2,132
154.2	Forward, Canadian Pacific Ry., Weyburn and Stirling line, crossing	2,129
162.8	Moreland station	2,114
170.0	Parry station	2,100
176.4	Dummer station	2,088
183.0	Truax station	2,059
192.1	Avonlea station	1,972
193.0	Gravelbourg junction, with Gravelbourg branch	1,960
199.1	Hearne station	1,937
206.4	Briercrest station	1,920
213.4	Tilney station	1,883
217.9	Baildon station	1,904
219.4	Summit	1,920
221.9	Antar station	1,871
223.7	Moose Jaw creek, water, 1,799; rail	1,836
224.6	South Moose Jaw station	1,812
225.7	Canadian Pacific Ry., main line, crossing, Can. Pac. Ry., rail, 1,782; Can. Nor. Ry., rail	1,800
226.0	Moose Jaw station	1,798
	CANADIAN NORTHERN RAILWAY—BIENFAIT BRANCH	
Miles from Luxton		
0.0	Luxton, junction with Moose Jaw branch, 68.4 miles from Mary- field	1,947
7.5	Kingsford station	1,914
15.4	Canadian Pacific Ry., Souris branch, crossing	1,901.6
16.3	Bienfait station	1,900
	CANADIAN NORTHERN RAILWAY—BENGOUGH BRANCH	
Miles from Radville		
0.0	Radville, junction with Moose Jaw branch, 139.8 miles from Maryfield	2,068
1.2	Moose Jaw junction, switch	2,084
7.0	Brooking station	2,132
17.0	Ceylon station	2,339
23.0	Hardy station	2,436
29.4	Roe station	2,450
36.3	Ritchie station	2,345
45.2	Bengough station	2,259
	Under Construction	
48.6	Una creek, bed, 2,207; rail	2,228
54.3	Willowbunch lake, water (Mar. 31, 1910). 2,185; high water, 2,188	2,194
58.2	Birks ravine, water, 2,185; rail	2,208
60.4	End of prairie	2,254

CANADIAN NORTHERN RAILWAY

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Elevation
above mean
sea levelMiles from
Gravelbourg
JunctionCANADIAN NORTHERN RAILWAY—GRAVELBOURG
BRANCHElevation
above mean
sea level

0.52	0.0	Gravelbourg junction, with Moose Jaw branch, 193.0 miles from Maryfield.	
0.60	5.0	Ground, N.W. $\frac{1}{4}$, 35-12-24, W. 2 M.	1,960
0.73	7.3	Claybank station.	2,059
0.68	10.4	Bayard station.	2,111
0.84	12.0	Ground, S.W. $\frac{1}{4}$, 23-12-25, W. 2 M.	2,165
0.83	18.1	Spring Valley station.	2,193
1.32	22.5	Ground, S.E. $\frac{1}{4}$, 15-11-26, W. 2 M., 2,390; rail	2,317
1.29	27.3	Galilee station.	2,386
1.14	36.0	Mitchellton station.	2,478
1.00	41.4	Lake of the Rivers, high water, 2,201; water (Aug. 1, 1911), 2,196; rail.	2,310
0.88	42.8	Ardill station.	2,208
0.59	46.5	S.E. $\frac{1}{4}$, 11-29, W. 2 M., rail.	2,214
0.972	48.2	Mossbank station.	2,284
0.960	50.6	Canadian Pacific Ry., Expanse branch, crossing, C. P. Ry., rail, 2,260; proposed grade, C. N. Ry., 2,287; present rail.	2,309
0.937	52.2	Crossing telegraph line to Wood mountain, rail.	2,298
0.920	56.8	Ettington station.	2,358
0.883	62.9	Mazenod station.	2,322
0.904	65.1	Rail, S.E. $\frac{1}{4}$, 31-10-2, W. 3 M.	2,352
0.920	69.7	Palmer station.	2,389
0.871	74.2	Grade.	2,322
0.836	77.0	Wood river, high water (1912), 2,287; water (July 14, 1911), 2,270; rail.	2,294
0.812	78.8	Gravelbourg station.	2,297
0.809	80.5	End of profile, N.W. $\frac{1}{4}$, 2-11-5, W. 3 M.	2,303
0.798			

CANADIAN NORTHERN RAILWAY—SWIFT
CURRENT EXTENSION (Projected)

0.947	Miles from		
0.914	Gravelbourg		
0.901.6	0.0	Gravelbourg station.	2,297
0.900	3.8	Canadian Pacific Ry. survey line, in middle S.E. $\frac{1}{4}$, 22-11-5, W. 3 M.	2,303
	6.2	Grade, S.E. $\frac{1}{4}$ and S.W. $\frac{1}{4}$, 33-11-5.	2,323
	10.2	Notaku creek, high water, 2,303; ice (Nov., 1911), 2,289; grade.	2,309
	16.2	Grade, S.E. $\frac{1}{4}$, 30-12-6.	2,292
	21.2	Grade, middle N.W. $\frac{1}{4}$, 10-13-7.	2,273
	23.3	Wiwa creek, high water, 2,273; grade.	2,278
	26.2	Grade, middle N.W. $\frac{1}{4}$, 25-13-8.	2,288
	31.2	Grade, N.E. $\frac{1}{4}$, 6-14-8, W. 3 M.	2,305
0.068	36.2	Grade, N.E. $\frac{1}{4}$, 21-14-9.	2,328
0.084	40.2	Grade, S.E. $\frac{1}{4}$, 1-15 and N.E. $\frac{1}{4}$, 36-14-10.	2,357
0.132	41.2	Grade, N.W. $\frac{1}{4}$, 1 and N.E. $\frac{1}{4}$, 2-15-10, W. 3 M.	2,357
0.339	46.2	Grade, N.E. cor. N.E. $\frac{1}{4}$, 21-15-10.	2,375
0.436	49.4	Rush Lake brook, S.E. $\frac{1}{4}$, 25-15-11-W. 3 M., high water, 2,364; grade.	2,371
0.450	56.2	Grade, N.W. $\frac{1}{4}$ and S.W. $\frac{1}{4}$, 7-15-11.	2,470
0.345	61.2	Grade, S.E. $\frac{1}{4}$, 17-15-12, W. 3 M.	2,543
0.259			

CANADIAN NORTHERN RAILWAY—NEEPAWA
AND RIDING MOUNTAIN BRANCH

0.228	Miles from		
0.194	Neepeewa Junc.		
0.208	0.0	Neepeewa junction, with main line, 523.5 miles from Port Arthur.	911.7
0.254	5.6	Mayfield station.	950
	10.8	Berton station.	992
	13.6	Water tank.	1,033

Miles from Neepawa Junc.	CANADIAN NORTHERN RAILWAY—NEEPAWA AND RIDING MOUNTAIN BRANCH	Elevation above mean sea level
20.0	Hummerston station.....	1,296
23.2	Carberry junction, with Carberry branch.....	1,234
26.6	Junction switch.....	1,284
27.1	Hallboro, junction with Rapid City branch.....	1,279
29.0	Glendale station.....	1,221
33.1	Neepawa station.....	1,243
33.6	Canadian Pacific Ry., Portage la Prairie and Wetaskiwin line, crossing.....	1,224
37.7	Rosburn junction, with Rosburn branch.....	1,244
38.2	Howden station.....	1,249
43.5	Eden station.....	1,306
48.7	Birnie station.....	1,248
54.7	Riding Mountain station.....	1,214
60.8	Kelwood station.....	1,134
65.0	Norgate station.....	1,044
70.4	McCreary junction, with main line, 580.1 miles from Port Arthur.....	995.3

Miles from Brandon Junc.	CANADIAN NORTHERN RAILWAY—CARBERRY BRANCH	
0.0	Brandon junction, with Portage la Prairie and Regina line, 52.5 miles from Portage la Prairie.....	1,231
3.8	Canadian Pacific Railway, main line, crossing.....	1,261
4.1	Carberry station.....	1,261
8.5	Fairview station.....	1,274
12.3	Petrel station.....	1,282
12.8	Grand Trunk Pacific Ry., main line, crossing.....	1,280
17.0	Canadian Pacific Ry., Varcoe branch, crossing.....	1,287
17.7	Munroe station.....	1,287
22.9	Carberry junction, with Neepawa and Riding Mountain branch.....	1,234

Miles from Hallboro	CANADIAN NORTHERN RAILWAY—RAPID CITY BRANCH	
0.0	Hallboro, junction with Neepawa and Riding Mountain branch, 27.1 miles from Neepawa junction.....	1,279
0.5	Junction switch.....	1,284
1.5	Water tank.....	1,249
5.7	Mentmore station.....	1,332
12.5	Cordova station.....	1,565
20.5	Rufford station.....	1,774
26.1	Canadian Pacific Ry., Rapid City branch, crossing, C.P.Ry., rail, 1,588; C.N.Ry., rail.....	1,618
26.2	Little Saskatchewan river, bed, 1,560; rail.....	1,617
27.4	Rapid City station.....	1,637
35.0	Moline station.....	1,821
42.5	Cardale station.....	1,845
46.0	Brumlie station.....	1,817
51.8	McConnell station.....	1,790
57.9	Lavinia station.....	1,779
63.2	Decker station.....	1,733
67.3	Isabella station.....	1,707
74.0	Minnewasta creek, bed, 1,516; grade.....	1,569
75.0	Beulah station.....	1,554

CANADIAN NORTHERN RAILWAY

264

Miles from
Rossburn JuncCANADIAN NORTHERN RAILWAY—ROSSBURN
BRANCHElevation
above mean
sea level

0.0	Rossburn junction, with Neepawa and Riding Mountain branch	1 244
5.0	Springhill station	1 458
9.2	Orrville station	1 645
15.2	Bethany station	1 867
20.2	Clanwilliam station	2 047
31.6	Erickson station	2 053
45.5	Sandy Lake station	2 047
46.9	Sandy lake, freshet, 1,991; water (June, 1903), 1,989; rail	2 047
52.5	Elphinstone station	1 804
56.4	Glenforsa station	1 905
61.0	Menzie station	1 887
65.6	Oakburn station	1 911
72.5	Vista station	1 946
78.6	Rossburn station	1 938
92.4	Angusville station	1 893
98.9	Silverton station	1 876
104.2	Russell station	1 873
111.7	Endcliffe station	1 692
120.9	Shellmouth station	1 436
122.7	Assiniboine river, water (May 15, 1908), 1,362; rail	1 373
128.4	Dropmore station	1 642
133.4	Manitoba and Saskatchewan boundary	1 652
137.0	McNutt station	1 669
145.0	Calder station	1 736
152.6	Wroxton station	1 751
160.7	Stornaway station	1 729
168.7	Rhein station	1 687
177.0	Hampton station	1 620
184.5	Donwell station	1 625
190.6	Ross, junction with main line, 739.1 miles from Port Arthur	1 600

Miles from
WroxtonCANADIAN NORTHERN RAILWAY—WROXTON
AND CRAVEN BRANCH. (Projected)

0.0	Wroxton, junction with Rossburn branch, 177.6 miles from Rossburn junction	1 751
0.1	Junction switch	1 750
5.0	Grade, S.W. $\frac{1}{4}$, 2-26-33, W.P.M.	1 742
6.0	Station ground	1 732
10.0	Grade, N.W. $\frac{1}{4}$, 32-25-1, W. 2 M.	1 728
14.1	Station ground, N.W. $\frac{1}{4}$, 34-25-2, W. 2 M.	1 716
20.1	Station ground, N.W. $\frac{1}{4}$, 34-25-3, W. 2 M.	1 669
25.0	Grade	1 641
26.5	Grand Trunk Pacific Ry., Yorkton branch, crossing	1 654
28.7	Canadian Pacific Ry., Portage la Prairie and Wetaskiwin, crossing	1 700
29.5	Grade	1 712
31.9	Station ground	1 692
36.0	Station ground	1 712
40.9	Station ground	1 750
45.4	Grade	1 853
48.2	Grade, by levels from Wroxton	1 913
48.2	Grade, by levels from Craven	1 920
49.8	Line between ranges VII and VIII, grade	1 959
57.0	Line between ranges VIII and IX, grade	2 132
63.2	Line between ranges IX and X, grade	2 203
69.5	Line between ranges X and XI, grade	2 194
69.8	Grand Trunk Pacific Ry., main line, crossing	2 192

Miles from Wroxton	CANADIAN NORTHERN RAILWAY—WROXTON AND CRAVEN BRANCH (<i>Projected</i>)	Elevation above mean sea level
74.0	Summit.....	2,228
75.8	Line between ranges XI and XII, grade.....	2,227
80.0	Line between townships 24 and 25, grade.....	2,219
82.0	Line between ranges XII and XIII, grade.....	2,224
87.9	Line between ranges XIII and XIV, grade.....	2,155
95.0	N.E. $\frac{1}{4}$, 36-24-15, W. 2 M, grade.....	2,121
101.9	S.W. cor., sec. 30, tp. 25, R. XV, grade.....	2,094
108.3	S.W. $\frac{1}{4}$, 30-25-16, grade.....	1,920
115.0	S.W. $\frac{1}{4}$, 31-24-17, grade.....	1,891
121.0	N.W. $\frac{1}{4}$, 31-24-18, grade.....	1,868
121.6	Loon creek, bed, 1,798; grade.....	1,852
123.3	Junction with Craven Branch extension.....	1,854
127.1	End of Craven Branch survey, S.E. $\frac{1}{4}$, 15-25-19.....	1,842
124.1	Grade, N.E. $\frac{1}{4}$, 22-24-19.....	1,857
129.4	Grade, N.E. $\frac{1}{4}$, 27-23-19.....	1,823
132.9	Canadian Pacific Ry., Kirkella and Lanigan branch, crossing, S.W. $\frac{1}{4}$, 10-23-19.....	1,881
139.5	Station ground.....	1,895
142.4	S.E. $\frac{1}{4}$, 31-21-19, W. 2 M, ground.....	1,828
147.4	Grade, S.W. $\frac{1}{4}$, 29-21-19, W. 2 M.....	1,698
152.2	Qu'Appelle river, water (Aug. 5, 1912), 1,597; grade.....	1,605
154.4	Station ground.....	1,613
156.7	Qu'Appelle river, water, 1,602; grade.....	1,614
159.2	Canadian Pacific railway, Colonsay branch, crossing.....	1,622
159.4	Craven, junction with Craven spur from Regina and Prince Albert branch.....	1,616
	CANADIAN NORTHERN RAILWAY—CANORA BRANCH (<i>Projected</i>)	
Miles from Canora		
0.0	Canora, junction with main line, 742.8 miles from Port Arthur.....	1,603
3.2	Crooked Hill creek, water 1,581; grade.....	1,594
8.0	Station ground, N.E. $\frac{1}{4}$, 14-32-4, W. 2 M.....	1,637
14.2	Station ground, N.E. $\frac{1}{4}$, 15-33-4, W. 2 M.....	1,664
17.8	Station ground, S.E., 3-34-4, W. 2 M.....	1,671
21.7	Sturgis, junction with Thunder Hill branch.....	1,647
	CANADIAN NORTHERN RAILWAY—VONDA BRANCH (<i>Projected</i>)	
Miles from Vonda		
0.0	Vonda, junction with main line, 909.4 miles from Port Arthur.....	1,735
5.1	Grade, N.E. $\frac{1}{4}$, 30-39-1, W. 3 M.....	1,726
8.3	Siding, N.E. $\frac{1}{4}$, Sec. 8, tp. 40, R. I, W. 3 M.....	1,630
12.1	Grade.....	1,651
17.3	Grade, N.E. $\frac{1}{4}$, sec. 17, tp. 41, R. XXVI, W. 2 M.....	1,642
20.2	End of profile.....	1,640
	CANADIAN NORTHERN RAILWAY—ST. ROSE BRANCH	
Miles from Ochre River		
0.0	Ochre River, junction with main line, 604.4 miles from Port Arthur.....	922.2
0.1	Junction switch.....	923
	Lake Dauphin, water (Aug. 18, 1914).....	854.0
11.3	Sr. Rose station.....	871
14.0	Creek, bed 851; rail.....	874
15.0	End of track.....	874
21.1	End of proposed extension.....	875

Miles from Dauphin	CANADIAN NORTHERN RAILWAY—DAUPHIN AND PRINCE ALBERT BRANCH	Elevation above mean sea level
0.0	Dauphin, junction with main line, 617.9 miles from Port Arthur	968.2
3.0	North junction.....	967.8
6.0	Wilson river, water, 958; rail	974
8.9	Valley River station.....	973.9
9.1	Valley river, high water, 957; rail	971
13.1	Summit.....	987
16.1	Sifton station.....	969.1
17.9	Sifton junction, with Winnipegosis branch	961.3
24.4	Ukraina siding	1,025.5
32.5	Fork river, bed, 1,106; rail	1,126
32.6	Ethelbert station.....	1,129.6
41.4	Pine Creek, bed, 1,106; rail	1,124
41.7	Garland station.....	1,128.4
51.7	Pine River station.....	1,149.0
53.5	Pine river, bed, 1,144; rail	1,155
59.1	South Duck river, bed, 1,139; rail	1,152
62.3	Sclater station.....	1,152.9
62.5	Slate river, bed, 1,139; rail	1,150
69.4	North Duck river, bed, 1,166; rail	1,196
69.7	Cowan station.....	1,202.4
77.0	Sinclair river, bed, 1,133; rail	1,140
80.4	Fisher station.....	1,133.1
90.2	Minitonas station.....	1,088.8
90.4	East Favell river, bed, 1,074; rail	1,087
91.7	West Favell river, bed, 1,073; rail	1,088
96.0	Sevick siding	1,105.4
98.9	Rolling river, bed, 1,102; rail	1,115
99.6	Thunder Hill, junction with Swan River branch	1,119.6
101.5	Swan River station by levels from Winnipeg, 1,116.3; by levels from west	1,113.9
101.9	Swan river, bed, 1,082; rail	1,108
108.5	Woody river, high water, 1,001; water, 999; rail	1,029
111.2	Bowsman station.....	1,017
112.0	Bowsman river, water, 988; bed, 982; rail	1,004
114.5	Brook, water, 994; rail	1,002
122.5	Birch river, water, 1,021; rail	1,032
	From mile 111 to 138, nearly level	1,001-1,046
123.0	Birch River station.....	1,041
128.1	North branch Birch river, bed, 1,069; rail	1,074
128.5	Summit.....	1,081
132.4	Novra station.....	1,061
137.3	Bell river, bed, 1,062; rail	1,074
143.7	Mafeking station.....	1,069
146.6	Steep-rock river, bed, 1,026; rail	1,039
152.0	Baden station.....	1,038
153.6	Muddy river, bed, 1,032; rail	1,042
156.7	Rice river, bed, 1,056; rail	1,059
160.6	Powell station.....	1,036
162.3	Barrows junction.....	1,028
171.3	Westgate station	1,014
172.3	Water tank.....	1,014
181.3	Roscoe station.....	1,054
193.7	Erwood station.....	1,078
202.7	Hudson Bay junction, with Hudson Bay branch	1,219.1
215.3	Water tank.....	1,405
216.0	Greenbush station.....	1,410.8
227.6	Prairie River station	1,546.8

Miles from Dauphin	CANADIAN NORTHERN RAILWAY—DAUPHIN AND PRINCE ALBERT BRANCH	Elevation above mean sea level
228.2	Shaw siding.....	1,532.5
234.9	Bannock station.....	1,597.6
237.2	Water tank.....	1,627
243.7	Mistatim station.....	1,595.8
253.8	Peesane station.....	1,606.8
261.7	Crooked River station.....	1,494.0
263.6	Murphy station.....	1,503.9
265.3	Osgood station.....	1,495.5
275.1	Tisdale station.....	1,477.0
280.5	Valparaiso station.....	1,514.8
282.8	Water tank.....	1,551.4
287.5	Star City station.....	1,539.4
294.4	Naisberry station.....	1,576.3
298.5	Water tank.....	1,530
301.1	Melfort station.....	1,518.1
309.5	Beatty station.....	1,489.4
318.8	Water tank.....	1,520.5
319.6	Kinistino station.....	1,518.0
325.0	Weldon station.....	1,495.7
330.7	Brancepeth station.....	1,483.5
338.3	Birch Hills station.....	1,506
346.5	Fenton station.....	1,45'
347.1	South Saskatchewan river, high water (1902), 1,400; water (1904), 1,376; rail.....	1,459
349.1	Senator station.....	1,494
354.2	Davis station.....	1,492.0
363.5	Prince Albert, junction with Regina and Prince Albert branch and Shellbrook branch.....	1,413.3
CANADIAN NORTHERN RAILWAY—WINNIPEGOSIS BRANCH		
Miles from Sifton Junc.		
0.0	Sifton junction, with Dauphin and Prince Albert branch, 17.9 miles from Dauphin.....	961.3
4.7	Fishing River siding.....	920.2
9.5	Fork River station.....	871.0
10.3	Fork river, water, 852; rail.....	870
19.2	Gruber station.....	848
20.7	Winnipegosis station.....	841.1
21.2	Lake Winnipegosis, wharf, 832; water (Sept. 12, 1914), 831.6; mean water.....	828
CANADIAN NORTHERN RAILWAY—SWAN RIVER BRANCH		
Miles from Thunder Hill		
0.0	Thunder Hill, junction with Dauphin and Prince Albert branch, 99.6 miles from Dauphin.....	1,119.6
6.5	Kenville station.....	1,271
14.1	Durban station.....	1,385
18.8	Benito station.....	1,399
26.3	Arran station.....	1,508
35.6	Pelly station.....	1,534
45.0	Norquay station.....	1,599
52.6	Hyas station.....	1,686
57.8	Stenen station.....	1,668
65.5	Sturgis station.....	1,647
67.0	Water tank.....	1,650
72.2	Preeceville station.....	1,686

Miles from
Hudson Bay
Junc.CANADIAN NORTHERN RAILWAY—HUDSON BAY
BRANCHElevation
above mean
sea level

0.0	Hudson Bay junction, with Dauphin and Prince Albert branch	
	202.7 miles from Dauphin	1,219.1
	Junction switch	1,223.3
6.3	Ruby Lake station	1,240.0
8.9	Wachee station	1,248.4
12.6	Nepas station	1,207.5
12.6	Overflowing river, water (July 17, 1906), 1,199; bed, 1,196; rail	1,207
18.0	Ceba station	1,171.4
27.2	Chemong station	1,133.8
34.1	Tank	1,097
35.0	Crossing Second meridian	1,083
35.1	Otosquen station	1,082.6
43.0	Cantyre station	1,009.4
49.4	Boundary between Saskatchewan and Manitoba	961
50.5	Turnberry station	951.8
50.9	Pasqua river, bed, 924; rail	945.9
60.4	Whithorn station	933.0
65.3	Grade	921
68.1	Westray station	910.8
77.8	Freshford station	904.2
87.5	The Pas station	880.7
88.5	Saskatchewan river, high water, 865; low water, 843; rail	880.6

CANADIAN NORTHERN RAILWAY—SHELLBROOK
BRANCHMiles from
Prince Albert

0.0	Prince Albert, junction with Dauphin and Prince Albert and Regina and Prince Albert branches	1,413.3
0.5	North Saskatchewan river, B.M., copper plug in top of pier, south end, east side of bridge, 1,403.5; high water (July 14, 1912), 1,386.2; low water (Jan. 18, 1914), 1,373.8; rail	1,411
8.0	Buckland station	1,438.5
15.2	Crutwell station	1,493.4
20.4	Holbein station	1,611.5
28.5	Shellbrook, junction with Crooked Lake branch	1,642.3
35.8	Parkside station	1,688
43.3	Kilwinning station	1,710
49.6	Leask station	1,725
56.5	Marcelin station	1,721
64.0	Blaine Lake station	1,722
68.8	Tallman station	1,667
71.4	Blaine lake, bay of, bed, 1,624; rail	1,631
73.8	Krydor station	1,682
76.4	Creek to Redberry lakes, bed, 1,703; rail	1,727
81.6	Redberry station	1,870
86.8	Hafford station	1,952
90.0	Summit	1,951
95.6	Speers station	1,922
102.3	Richard station	1,804
111.0	Lilac station	1,940
116.5	Denholm, junction with main line, 998.3 miles from Port Arthur	1,804.9

CANADIAN NORTHERN RAILWAY—CROOKED LAKE
BRANCHMiles from
Shellbrook

0.0	Shellbrook, junction with Shellbrook branch	1,642.3
3.1	Shell river, bed, 1,548; rail	1,562

Miles from
ShellbrookCANADIAN NORTHERN RAILWAY—CROOKED LAKE
BRANCHElevation
above mean
sea level

6.9	Clonfert station.....	1,648.0
14.6	Canwood station.....	1,696.2
16.7	Slough, water (Sept., 1909), 1,714; rail.....	1,718
19.0	Summit.....	1,762
22.2	Polwarth station.....	1,742.0
26.4	Grade.....	1,745
31.2	Debden station.....	1,712.8
36.9	Eldred station.....	1,712.1
45.2	Dumble station.....	1,683.7
50.6	Bodmin station.....	1,651.7
56.4	Creek, bed, 1,567; rail.....	1,582
56.5	Big River station.....	1,591.6
56.5	Cowan river, opposite Big River station, water (November 30, 1914).....	1,559.3

CANADIAN NORTHERN RAILWAY—REGINA AND
PRINCE ALBERT BRANCHMiles from
Regina

0.0	Regina, Canadian Pacific Ry., station.....	1,896.4
1.0	Grand Trunk Pacific railway, Regina and Boundary branch, crossing.....	1,893.7
1.9	North Regina station.....	1,893.7
5.0	Ardmore station.....	1,920.1
9.1	Condie station.....	1,875.5
17.5	Valley tank.....	1,662
18.3	Craven junction, with Craven spur.....	1,640
22.2	Craven station.....	1,616
19.8	Lumsden station.....	1,630.2
22.3	Qu'Appelle river, water, 1,615; rail.....	1,634
27.5	Summit.....	1,862
28.4	Disley station.....	1,828.0
36.7	Bethune station.....	1,828.7
46.9	Findlater station.....	1,819.5
55.5	Chamberlain station.....	1,881.4
63.7	Aylesbury station.....	1,890.2
73.3	Craik station.....	1,915.2
81.8	Girvin station.....	1,974.7
86.0	Summit.....	2,049
88.0	Tins station (formerly Finsbury).....	1,980
90.1	Davidson station.....	2,030.4
99.9	Bladworth station.....	2,076.9
104.1	Summit.....	2,104
110.9	Kenaston station.....	2,019.1
122.2	Hanley station.....	1,946.8
128.9	Depression.....	1,727
131.0	Indi station.....	1,790.4
136.3	Dundurn station.....	1,736.6
141.3	Verdi tank.....	1,683
143.0	Strehlow station.....	1,688
147.0	Haultain station.....	1,684.3
152.0	Grasswood station.....	1,672
156.9	Grand Trunk Pacific railway, main line, crossing.....	1,654.4
157.4	Nutana station.....	1,660.4
159.7	Saskatchewan river, extreme high water, 1,567; ordinary high water, 1,560; ordinary water, 1,553; extreme low water, 1,545; rail.....	1,587

CANADIAN NORTHERN RAILWAY

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Miles from Regina	CANADIAN NORTHERN RAILWAY—REGINA AND PRINCE ALBERT BRANCH	Elevation above mean sea level
160.0	Saskatoon, junction with Saskatoon and Calgary branch.....	1,589.7
161.0	Canadian Pacific railway, Portage la Prairie and Wetaskiwin line, crossing	1,607.5
168.5	Clark Crossing station.....	1,645.8
173.7	Warman, junction with main line, 930.8 miles from Port Arthur.	1,676.1
177.6	Osler station.....	1,689.3
188.8	Hague station.....	1,677.7
199.9	Rosthern station.....	1,672.5
206.0	Leckford station.....	1,661.0
211.4	Duck Lake station.....	1,660.6
220.2	Roddick station.....	1,623.4
224.0	Adamson station.....	1,598.4
228.6	Macdowall station.....	1,558.0
237.8	Clouston station.....	1,498.7
247.2	Prince Albert, junction with Shellbrook and Dauphin and Prince Albert branches	1,413.3

Miles from Dalmeny	CANADIAN NORTHERN RAILWAY—CARLTON BRANCH	
0.0	Dalmeny, junction with main line, 939.4 miles from Port Arthur	1,722.4
7.0	Mennon station.....	1,757
14.0	Hepburn station.....	1,787
21.0	Waldheim station.....	1,790
28.0	Laird station.....	1,726

Miles from North Battleford	CANADIAN NORTHERN RAILWAY—STURGEON RIVER BRANCH	
0.0	North Battleford, junction with main line, 1,012.8 miles from Port Arthur.....	1,687.1
7.5	Hamlin station.....	1,767
14.4	Prince station.....	1,759
16.0	Jackfish creek, bed, 1,733; rail.....	1,750
29.8	Meota station.....	1,761
21.9	Jackfish lake, water, nearly, 1,745; rail.....	1,751
24.2	Creek, bed, 1,743; rail.....	1,764
31.0	Vawn station.....	1,783
38.3	Edam station.....	1,802
49.6	Mervin station.....	1,906
55.7	Turdeford station.....	1,925
60.5	End of profile	1,933

Miles from Saskatoon	CANADIAN NORTHERN RAILWAY—SASKATOON AND CALGARY BRANCH	
0.0	Saskatoon, junction with Regina and Prince Albert line	1,589.7
4.8	Grand Trunk Pacific Ry., main line, crossing.....	1,654
7.3	Eaton station.....	1,657
16.8	Vanscoy station.....	1,723
20.9	Water tank.....	1,711
25.6	Delisle, junction with Delisle branch.....	1,770
32.1	Canadian Pacific Ry. survey line	1,758
33.7	Laura station.....	1,743
40.8	Tessier station.....	1,824
49.4	Harris station.....	1,896
51.6	Water tank.....	1,873

Miles from Saskatoon	CANADIAN NORTHERN RAILWAY—SASKATOON AND CALGARY BRANCH	Elevation above mean sea level
60.2	Zealandia station.....	1,956
68.0	Canadian Pacific Ry., Outlook branch, crossing.....	1,929
71.6	Rosetown station.....	1,927
78.4	Ridpath station.....	2,034
84.3	McGee station.....	2,138
90.6	Water tank.....	2,195
91.8	Fiske station.....	2,214
97.8	D'Arcy station.....	2,286
106.2	Brock station.....	2,256
112.8	Netherhill station.....	2,337
117.0	Summit.....	2,356
118.7	Beadle station.....	2,345
123.0	Water tank.....	2,279
126.1	Kindersley station.....	2,233
134.1	Fairmount station.....	2,189
140.8	Pinkham station.....	2,217
147.6	Flaxcombe station.....	2,344
156.8	Marengo station.....	2,189
163.0	Merid station.....	2,231
170.2	Alsask, junction with Delisle Branch extension (projected).....	2,303
176.7	Saskatchewan and Alberta boundary.....	2,296
178.0	Sibbald station.....	2,358
186.3	Junction with Camrose and Sibbald branch (projected).....	2,359
192.6	Benton station.....	2,461
197.3	Oyen station.....	2,521
209.9	Excel station.....	2,604
210.1	Cereal station.....	2,511
214.6	Canadian Pacific Ry. survey line.....	2,502
219.1	Chinook station.....	2,538
220.2	Water course, bed, 2,571; rail.....	2,579
227.3	Dobson station.....	2,555
228.1	Canadian Pacific Ry. survey line.....	2,545
234.0	Youngstown station.....	2,534
242.0	Scotfield station.....	2,498
246.6	Stanmore station.....	2,582
253.1	Richdale station.....	2,527
256.9	Alness station.....	2,659
261.4	Bonar station.....	2,734
262.0	Junction with Hanna and Medicine Hat branch (projected).....	2,677
262.5	Lone Hill creek, bed, 2,646; rail.....	2,666
262.9	Hanna station.....	2,677
266.0	Junction with Warden and Hanna branch (projected).....	2,671
270.0	Bull-pound creek, water, 2,656; rail.....	2,666
275.0	Watts station.....	2,734
276.8	Grade.....	2,803
284.1	Craigmyle station.....	2,851
291.3	Delia station.....	2,973
292.2	Michichi creek, bed, 2,728; rail.....	2,752
295.2	Michichi station.....	2,754
300.7	Gartly station.....	2,771
302.5	Michichi creek, bed, 2,554; rail.....	2,619
303.2	Munson junction, with Battle River branch.....	2,668
312.4	Munson station.....	2,664
314.7	Red Deer river, high water, 2,237; water, 2,228; rail.....	2,253
319.2	Drumheller station.....	2,250
322.6	Siding.....	2,237
	Rose Deer station.....	2,283

Miles from
SaskatoonCANADIAN NORTHERN RAILWAY—SASKATOON
AND CALGARY BRANCHElevation
above mean
sea level

328.2	Creek, bed, 2,357; rail.....	2,378
330.4	Beynon station.....	2,417
335.3	Creek, high water, 2,519; rail.....	2,524
336.3	Creek, high water, 2,532; rail.....	2,544
337.4	Creek, high water, 2,580; rail.....	2,596
338.8	Rosebud creek, high water, 2,570; rail.....	2,578
339.0	Rosebud station.....	2,588
339.5	Rosebud creek, high water, 2,584; bed, 2,566; rail.....	2,592
341.7	Redland station.....	2,629
343.4	Serviceberry creek, bed, 2,635; rail.....	2,659
343.9	Serviceberry creek, bed, 2,653; rail.....	2,666
349.6	Rockyford station.....	2,772
356.3	Baintree station.....	2,848
359.1	Canadian Pacific Ry., Irricana branch, crossing.....	2,913
365.7	Hawick station.....	3,007
373.8	Lyall station.....	3,160
377.2	Canadian Pacific Ry., Acme branch, crossing.....	3,240
381.1	Norfolk station.....	3,314
387.0	Chestermere Lake station.....	3,417
388.8	Canadian Pacific irrigation canal, bed, 3,355; rail.....	3,367
389.3	Janet station.....	3,355
393.0	Wye.....	3,416
393.3	Barlow station.....	3,428
395.4	Canadian Pacific Ry., main line, crossing. C.P.Ry., rail, 3,387; C.N.Ry., rail.....	3,411
396.0	Bow river, water, 3,363; rail.....	3,401
396.8	Calgary South, junction with Calgary Southerly branch (projected)	3,410
398.2	Canadian Pacific Ry., Macleod branch, crossing, C.P.Ry., rail, 3,420.8; C.N.Ry., rail.....	3,447.9
399.4	Elbow river, bed, 3,425; rail.....	3,446
399.5	Calgary station.....	3,446

Miles from
CalgaryCANADIAN NORTHERN RAILWAY—CALGARY
SOUTHERLY (*Projected*)

0.0	Calgary, junction with Saskatoon and Calgary branch.....	3,446
2.7	Calgary South, junction switch.....	3,410
7.7	Grade.....	3,354
10.5	Fish creek, high water, 3,289; water (Mar. 17, 1911), 3,286; grade.....	3,306
12.8	Station ground.....	3,271
15.1	Pine creek, bed, 3,250; grade.....	3,293
19.7	Summit.....	3,390
20.1	Dry creek, bed, 3,360; grade.....	3,380
28.4	Sheep creek, high water, 3,342; water (June 28, 1911), 3,338; grade.....	3,384
31.7	Canadian Pacific Ry., Aldersyde branch, crossing, S.E. $\frac{1}{4}$, 6-20-28, W. 4.....	3,401
36.6	Highwood river, high water (June, 1912), 3,385; water (July 3, 1911), 3,379; grade.....	3,394
37.7	High River station ground.....	3,390
38.1	Little Bow river, ice (Mar. 19, 1912), 3,388; grade.....	3,397
42.7	Grade, N.W., cor. tp. 18, R. 28, W. 4th mer.....	3,446
48.8	Grade, east boundary of S.E. $\frac{1}{4}$, 27-17-28.....	3,435
52.7	Grade, middle of S.E. $\frac{1}{4}$, 6-17-27.....	3,389
57.7	Grade, middle of S.E. $\frac{1}{4}$, 15-16-27.....	3,352
62.7	Ground, middle of S.E. $\frac{1}{4}$, 30-15-26, W. 4.....	3,307
66.2	Mosquito creek, S.E. $\frac{1}{4}$, 9-16-26, W. 4., high water, 3,206; water, 3,204; grade.....	3,246

Miles from
CalgaryCANADIAN NORTHERN RAILWAY—CALGARY
SOUTHERLY (*Projected*)Elevation
above mean
sea level

67.7	Grade, S.W. $\frac{1}{4}$, 3-15-26 and N.W. $\frac{1}{4}$, 33-14-26 W. 4 M.	3,213
72.7	Dry creek, N.W. and S.W. $\frac{1}{4}$, 11-14-26, W. 4, bed, 3,180; grade.	3,188
77.6	Grade, N.E. $\frac{1}{4}$, 13-13-26 and N.W. $\frac{1}{4}$, 18-13-25.	3,177
82.7	Grade, S.E. $\frac{1}{4}$, 29 and S.W. $\frac{1}{4}$, 28-12-25 W. 4.	3,195
85.2	Farm crossing, S.E. $\frac{1}{4}$, 16-12-25, W. 4 M., grade.	3,182
87.6	Station ground.	3,174
93.6	Blunden station ground.	3,168
97.7	Ground.	3,186
102.9	Willow creek, water, 3,055; grade.	3,101
104.7	Old-man river, water (Nov. 18, 1911), 3,069; grade.	3,088
105.7	Macleod, Canadian Pacific Ry., Crowsnest line, crossing.	3,112
107.1	Farm crossing, S.W. $\frac{1}{4}$, 6-9-25, W. 4 M., grade.	3,081
108.9	Station ground.	3,130
115.6	Drosco station.	3,248
122.6	Skelding station.	3,387
129.5	Bailey station.	3,547
131.2	Scott coulée, bed, 3,461; grade.	3,557
136.9	Jenkins station.	3,710
140.8	McLean station.	3,787
141.7	End of profile.	3,789

Miles from
Delisle

CANADIAN NORTHERN RAILWAY—DELISLE BRANCH

0.0	Delisle, junction with Saskatoon and Calgary branch, 25.6 miles from Saskatoon.	1,770
9.0	Birdview station.	1,753
16.1	Swanson station.	1,767
22.8	Ardath station.	1,835
26.5	Grade.	1,887
29.0	Canadian Pacific Ry., Outlook branch, crossing.	1,885
29.5	Conquest station.	1,892
38.8	Bratton station.	1,981
45.8	MacRorie station.	1,950
50.7	Elrose junction, with MacRorie East branch.	1,871
55.7	Juniper station.	1,901
57.0	Creek, bed, 1,888; rail.	1,902
62.2	Surbiton station.	1,906
64.5	Springs, bed, 1,899; rail.	1,908
66.7	Anerley station.	1,909
73.0	Dinsmore station.	2,009
77.6	N.E. $\frac{1}{4}$, 24-27-12, W. 3 M., ground.	1,929
82.1	Wiseton station.	1,879
89.4	Forgan station.	1,920
94.9	Hughton station.	2,010
100.4	Elrose station.	2,055

Projected Extension

107.9	Station ground.	2,038
113.1	Station ground.	2,125
115.6	Grade, N.W. $\frac{1}{4}$, 32-25-17, W. 3 M.	2,156
116.9	Grade, N.E. $\frac{1}{4}$, 30-25-17.	2,185
120.3	Grade, N.E. $\frac{1}{4}$, 27-25-18.	2,163
125.6	Grade, N.E. $\frac{1}{4}$, 35-25-19.	2,186
130.6	Line between S.W. $\frac{1}{4}$, 31-25-19 and S.E. $\frac{1}{4}$, 36-25-20.	2,219
135.6	Grade, N.W. $\frac{1}{4}$, 20-25-20.	2,230
138.2	Snipe coulée, S.E. $\frac{1}{4}$, 23-25-21, W. 3 M., bed, 2,160; grade.	2,207

CANADIAN NORTHERN RAILWAY

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Miles from Delisle	CANADIAN NORTHERN RAILWAY—DELISLE BRANCH <i>Projected Extension</i>	Elevation above mean sea level
140.6	Grade, S.E. $\frac{1}{4}$, 28-25-21, W. 3 M.	2,230
145.6	Grade, N.W. $\frac{1}{4}$, 2-26-22	2,266
150.6	Grade, N.W. $\frac{1}{4}$, 19-26-22	2,259
152.2	Water course, N.E. $\frac{1}{4}$, 23-26-23, bed, 2,170; grade	2,232
155.6	Grade, N.W. $\frac{1}{4}$, 20-26-23	2,205
160.6	Grade, S.E. $\frac{1}{4}$, 16-26-24	2,298
165.6	Grade, N.E. $\frac{1}{4}$, 15-26-25	2,357
170.6	West boundary, S.W. $\frac{1}{4}$, 18-26-25	2,396
175.6	Creek, S.W. $\frac{1}{4}$, 20-26-26, bed, 2,332; grade	2,364
180.6	Grade, S.W. $\frac{1}{4}$, 34-26-27	2,250
185.6	North boundary, N.W. $\frac{1}{4}$, 36-26-28	2,244
190.6	Grade, S.W. $\frac{1}{4}$, 16-27-28	2,232
196.4	Grade, near N.W. cor. tp. 27, R. 28, W. 3 M.	2,268
198.9	Alsask, junction with Saskatoon and Calgary branch	2,303

Miles from Elrose Junc.	CANADIAN NORTHERN RAILWAY—MACRORIE EAST BRANCH	
0.0	Elrose junction, with Delisle branch, 50.7 miles from Delisle	1,871
0.6	Tichfield station	1,871
8.7	Dumblane station	1,901

Projected Extension

14.3	Grade, N.W. $\frac{1}{4}$, 21-25-6, W. of 3 M.	1,827
19.3	Lake, 7-25-5, W. 3 M., water, 1,702; grade	1,728
21.9	South Saskatchewan river, high water, 1,678; water (Nov., 1912), 1,663; grade	1,710
24.3	Grade, S.E. $\frac{1}{4}$, 35-24-5, W. 3 M.	1,722
28.5	Canadian Pacific railway, Outlook branch, crossing, C.P.R. rail, 1,811; C.N.Ry., rail	1,776
29.8	End of profile, N.E. $\frac{1}{4}$, 9-24-4, W. 3 M.	1,773

Miles from Vegreville	CANADIAN NORTHERN RAILWAY—BATTLE RIVER BRANCH	
0.0	Vegreville, junction with main line, 1194.5 miles from Port Arthur	2,082.2
0.9	Junction switch, with main line	2,088
5.6	Vermilion river, bed, 2,135; rail	2,163
7.7	Inland station	2,212
15.3	Haight station	2,246
21.6	Grand Trunk Pacific Ry., main line, crossing	2,274.8
22.1	Ryley station	2,280
27.5	Dodds station	2,303
33.6	Roundhill station	2,426
35.0	Summit	2,452
39.2	Demay station	2,442
46.4	Strathcona Branch switch	2,443
46.7	Canadian Pacific Ry., Portage la Prairie and Wetaskiwin line, crossing	2,440
47.2	Camrose, junction with Strathcona branch	2,443
53.0	Battle station	2,273
53.2	Battle river, bed, 2,248; rail	2,263
58.2	Grade	2,391
58.6	Viewpoint station	2,385
65.6	Edberg station	2,561
74.5	Meeting Creek station	2,412

Miles from Vegreville	CANADIAN NORTHERN RAILWAY—BATTLE RIVER BRANCH	Elevation above mean sea level
80.2	Grade.....	2,565
84.2	Donalda station.....	2,555
93.6	Red Willow station.....	2,568
98.6	Lea Hurst station.....	2,620
103.6	Canadian Pacific Ry., Coronation branch, crossing.....	2,688
104.3	Stettler station.....	2,701
107.6	Tank.....	2,630
107.9	Brazeau Branch switch.....	2,724
109.5	Warden, junction with Brazeau branch.....	2,724
117.8	Fenn station.....	2,795
118.3	Summit.....	2,799
125.5	Big Valley station.....	2,727
133.3	Scollard station.....	2,699
138.0	Summit.....	2,790
140.3	Rumsey station.....	2,742
146.3	Rowley station.....	2,716
153.7	Morrin station.....	2,727
162.1	Munson junction, with Saskatoon and Calgary branch.....	2,668

Miles from Camrose	CANADIAN NORTHERN RAILWAY—STRATHCONA BRANCH	
0.0	Camrose, junction with Battle River branch.....	2,443
2.0	Grand Trunk Pacific Ry., Calgary branch, crossing.....	2,417
9.1	Armena station.....	2,448
16.2	Hay Lakes station.....	2,518
20.3	Summit.....	2,563
22.8	New Sarepta station.....	2,535
28.0	Grade.....	2,501
30.2	Looma station.....	2,494
32.2	Stony creek, bed, 2,442; rail.....	2,465
37.6	Bretona station.....	2,374
38.6	Mill creek, bed, 2,441; rail.....	2,454
45.9	Junction with spur to Edmonton, Yukon and Pacific railway....	2,213
45.9	Canadian Pacific Ry., Edmonton branch, crossing.....	2,213
47.4	Strathcona, Second avenue.....	2,205

Miles from Camrose	CANADIAN NORTHERN RAILWAY—CAMROSE AND SIBBALD BRANCH (<i>Projected</i>)	
0.0	Camrose, junction with Battle River branch.....	2,443
8.1	Station ground.....	2,377
12.5	Grade.....	2,295
16.3	Grade.....	2,337
22.4	Grade.....	2,348
28.5	Grade.....	2,351
34.6	Grade.....	2,383
43.7	Grade.....	2,353
51.2	Grade.....	2,339
59.3	Alliance station ground.....	2,365
69.2	Battle river, N.W. $\frac{1}{4}$, 2-39-12, W. 4, water (July, 1912), 2,113; grade.....	2,209
72.5	Frenchman creek, S.E. $\frac{1}{4}$, 35-38-12, W. 4, high water, 2,211; water, 2,208; grade.....	2,294
80.0	Grade, S.W. $\frac{1}{4}$, 32-37-12, W. 4 M.....	2,454
85.0	Grade, N.E. $\frac{1}{4}$, 11-37-11, W. 4.....	2,494
90.0	Grade, S.E. $\frac{1}{4}$, 29-36-10, W. 4 M.....	2,554

CANADIAN NORTHERN RAILWAY

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Miles from
CamroseCANADIAN NORTHERN RAILWAY—CAMROSE
AND SIBBALD BRANCH (Projected)Elevation
above mean
sea level

94.5	Canadian Pacific Ry., Coronation branch, crossing, N.W. $\frac{1}{4}$, 2-36	
	10, W. $\frac{1}{4}$ (about 5.3 miles east of Coronation).....	2,143
100.0	Grade, N.W. $\frac{1}{4}$, 16-35-9, W. 4 M.....	2,573
105.0	Grade, S.W. $\frac{1}{4}$, 36-34-9, W. 4.....	2,577
110.0	Grade, N.E. $\frac{1}{4}$, 9-34-8, W. 4.....	2,534
115.1	Grade, N.E. $\frac{1}{4}$, 24-33-8, W. 4 and N.W. $\frac{1}{4}$ 19-33-7, W. 4.....	2,489
120.0	Grade, S.W. $\frac{1}{4}$, 3-33-7 and N.W. $\frac{1}{4}$ 32-32-7, W. 4.....	2,468
125.0	Grade, S.W. $\frac{1}{4}$, 18-32-6, W. 4.....	2,494
130.0	Grade, S.W. $\frac{1}{4}$, 27-31-6, W. 4.....	2,513
135.0	Grade, N.E. $\frac{1}{4}$, 6-31-5, W. 4.....	2,542
140.0	Grade, N.E. $\frac{1}{4}$, 26-30-5, W. 4.....	2,424
145.0	Grade, S.W. $\frac{1}{4}$, 27-30-4, W. 4 M.....	2,282
149.5	Grade, N.E. $\frac{1}{4}$, 7-8-30, 3 W. 4.....	2,247
150.0	Grade, S.W. $\frac{1}{4}$, 8-30-3, W. 4.....	2,258
155.0	Grade, N.E. $\frac{1}{4}$, 23-29-3, W. 4.....	2,355
160.0	Grade, S.E. $\frac{1}{4}$, 5-29-2, W. 4 M.....	2,344
165.5	Junction with Saskatoon and Calgary branch at 178.0 miles from Saskatoon (1.3 miles west of Sibbald).....	2,359
166.8	Sibbald station.....	2,358

Miles from
WardenCANADIAN NORTHERN RAILWAY—WARDEN AND
HANNA BRANCH (Projected)

0.0	Warden, junction with Battle River branch.....	2,724
5.8	Grade, N.E. $\frac{1}{4}$, 27 and N.W. $\frac{1}{4}$, 26-37-19, W. 4.....	2,728
10.5	Grade, N.E. $\frac{1}{4}$, 17 and N.W. $\frac{1}{4}$, 16-37-18, W. 4.....	2,765
14.4	Grade, S.E. $\frac{1}{4}$, 2-37-18 and N.E. $\frac{1}{4}$, 35-36-18, W. 4.....	2,745
19.0	Lake Gough, S.E. $\frac{1}{4}$, 17-36-17, W. 4, water (Oct., 1912, 2,696; grade	2,704
24.5	Grade, S.E. $\frac{1}{4}$, 26 and N.E. $\frac{1}{4}$, 23-35-17, W. 4.....	2,737
29.8	Grade, S.E. $\frac{1}{4}$, 36-34-17, and S.W. $\frac{1}{4}$, 31-34-16, W. 4.....	2,740
33.2	Ground, N.E. and S.E. $\frac{1}{4}$, 17-34-16, W. 4.....	2,649
34.7	Summit, by levels from north, 2,682; by levels from south.....	2,689
34.8	Grade, S.E. $\frac{1}{4}$, 8 and S.W. $\frac{1}{4}$, 9 and N.W. $\frac{1}{4}$, 4-34-16, W. 4 M.....	2,687
40.3	Grade, S.E. $\frac{1}{4}$, 15 and N.E. $\frac{1}{4}$, 10-33-16, W. 4.....	2,629
41.8	Base of depression.....	2,610
45.4	Grade, S.E. $\frac{1}{4}$, 30 and N.E. $\frac{1}{4}$, 19-32-15, W. 4.....	2,615
48.3	Summit, N.W. $\frac{1}{4}$, 9-32-15, W. 4.....	2,662
49.6	Water course, S.W. $\frac{1}{4}$, 4-32-15, W. 4, bed.....	2,627
53.1	Summit, south boundary of S.E. $\frac{1}{4}$, 26-31-15, W. 4.....	2,713
57.7	Junction with Saskatoon and Calgary branch at mile 262.9.....	2,671
58.1	Hanna station.....	2,677

Miles from
HannaCANADIAN NORTHERN RAILWAY—HANNA AND
MEDICINE HAT BRANCH (Projected)

0.0	Hanna station.....	2,677
1.0	Junction with Saskatoon and Calgary branch at mile 261.44.....	2,677
6.2	Grade, N.E. $\frac{1}{4}$, 24-30-14, and N.W. $\frac{1}{4}$, 19-30-13, W. 4.....	2,728
11.2	Grade, S.W. $\frac{1}{4}$, 3-30-13, and N.W. $\frac{1}{4}$, 34-29-13, W. 4.....	2,711
16.0	Grade, N.E. $\frac{1}{4}$, 11-29-13, W. 4.....	2,732
22.0	Grade, S.E. $\frac{1}{4}$, 18 and N.E. $\frac{1}{4}$, 7-28-12, W. 4.....	2,707
28.0	Grade, S.W. $\frac{1}{4}$, 30 and N.W. $\frac{1}{4}$, 19-27-12, W. 4.....	2,560
33.0	Berry creek, high water, 2,374; water 2,362; grade.....	2,393
38.6	Grade, S.E. $\frac{1}{4}$, 4-26-12 and N.E. $\frac{1}{4}$, 33-25-12, W. 4.....	2,423
40.7	Grade, S.W. $\frac{1}{4}$, 15 and N.W. $\frac{1}{4}$, 10-25-12, W. 4 M.....	2,425
46.8	Grade, S.W. $\frac{1}{4}$, 14 and N.W. $\frac{1}{4}$, 11-24-12, W. 4 M.....	2,370
51.0	Grade, S.W. $\frac{1}{4}$, 25 and N.W. $\frac{1}{4}$, 24-23-12, W. 4.....	2,303

Miles from Hanna	CANADIAN NORTHERN RAILWAY—HANNA AND MEDICINE HAT BRANCH (<i>Projected</i>)	Elevation above mean sea level
55.2	Grade, S.W. $\frac{1}{4}$, 6-23-11 and N.E. $\frac{1}{4}$, 36-22-12, W. 4.....	2,303
61.3	Grade, S.W. $\frac{1}{4}$, 10 and S.E. $\frac{1}{4}$, 9-22-12, W. 4.....	2,301
62.4	Red Deer river, near mouth of Berry creek, high water (1902), 2,097; water (Nov., 1912), 2,085; grade.....	2,122
66.9	Grade, S.W. $\frac{1}{4}$, 30 and N.W. $\frac{1}{4}$, 19-21-12, W. 4.....	2,337
71.1	Grade, S.E. $\frac{1}{4}$, 1-21-13, W. 4 and N.E. $\frac{1}{4}$, 36-20-13, W. 4.....	2,368
76.0	Grade, S.E. $\frac{1}{4}$, 16 and S.W. $\frac{1}{4}$, 15-20-12, W. 4.....	2,448
81.1	Grade, N.E. $\frac{1}{4}$, 31 and N.W. $\frac{1}{4}$, 32-19-11, W. 4.....	2,492
86.8	Grade, S.E. $\frac{1}{4}$, 24-19-11 and S.W. $\frac{1}{4}$, 19-19-10, W. 4.....	2,596
91.8	Grade, S.E. $\frac{1}{4}$, 3 and S.W. $\frac{1}{4}$, 2-19-10, W. 4.....	2,476
97.0	Grade, N.E. $\frac{1}{4}$, 18 and N.W. $\frac{1}{4}$, 17-18-9, W. 4.....	2,502
100.3	Grade, S.E. $\frac{1}{4}$, 4-18-9 and N.E. $\frac{1}{4}$, 33-17-9 and N.W. $\frac{1}{4}$, 34-17-9, W. 4.....	2,539
106.1	Grade, S.E. $\frac{1}{4}$, 18 and N.W. $\frac{1}{4}$, 8-17-8, W. 4.....	2,539
108.9	Twelve-mile coulée, bed, 2,466; grade.....	2,493
117.4	Grade, S.E. $\frac{1}{4}$, 6-16-7 and N.E. $\frac{1}{4}$, 31-15-7, W. 4.....	2,404
121.0	Grade, N.E. $\frac{1}{4}$, 19 and N.W. $\frac{1}{4}$, 20-15-7, W. 4.....	2,326
126.1	Grade, S.E. $\frac{1}{4}$, 2-15-7 and N.W. $\frac{1}{4}$, 35-14-7, W. 4 M.....	2,402
130.7	Grade, S.E. $\frac{1}{4}$, 18 and N.E. $\frac{1}{4}$, 7-14-6, W. 4 M.....	2,477
136.0	Canadian Pacific Ry., main line, crossing, near Redcliff.....	2,442
137.3	Redcliff station ground.....	2,443
137.7	Canadian Pacific Ry., spur track, crossing (C.P.Ry. grade to be raised about 2 ft.).....	2,440
141.0	Medicine Hat, Canadian Pacific Ry., main line, crossing, C.P.Ry., rail, 2,315; C.N.Ry., rail.....	2,340

Miles from Strathcona	CANADIAN NORTHERN RAILWAY—STRATHCONA AND CALGARY BRANCH (<i>Projected</i>)	
0.0	Strathcona, junction with Strathcona branch.....	2,205
1.3	Junction switch.....	2,211
5.2	Black-mud creek, bed, 2,133; grade.....	2,329
10.5	Grade, N.W. $\frac{1}{4}$, 2 and N.E. $\frac{1}{4}$, 3-51-25, W. 4.....	2,288
14.8	Grade, S.W. $\frac{1}{4}$, 20 and S.E. $\frac{1}{4}$, 19-50-25, W. 4.....	2,308
20.1	Grade, S.E. $\frac{1}{4}$, 25 and N.E. $\frac{1}{4}$, 24-49-26, W. 4.....	2,364
25.8	Grade, N.W. $\frac{1}{4}$, 26 and N.E. $\frac{1}{4}$, 27-48-26, W. 4.....	2,484
30.7	Grade, S.W. $\frac{1}{4}$, 4-48-26 and N.W. $\frac{1}{4}$, 33-47-26, W. 4.....	2,590
33.7	Pipestone creek, water, 2,559; grade.....	2,573
40.2	Grade, N.E. $\frac{1}{4}$, 17 and N.W. $\frac{1}{4}$, 16-46-26, W. 4, by levels from north, 2,698; by levels from south.....	2,692
45.3	Grade, S.W. $\frac{1}{4}$, 30-45-26 and S.E. $\frac{1}{4}$, 25-45-27, W. 4.....	2,742
50.5	Grade, S.W. $\frac{1}{4}$, 3-45-27 and N.W. $\frac{1}{4}$, 34-44-27, W. 4.....	2,808
55.5	Battle river, high water, 2,664; water (Jan., 1912), 2,660; grade.....	2,708
61.5	Grade, S.E. $\frac{1}{4}$, 14 and N.E. $\frac{1}{4}$, 11-43-27, W. 4 M.....	2,822
65.9	Wolf creek, water 2,783; grade.....	2,811
70.4	Grade, S.E. $\frac{1}{4}$, 1-42-27 and N.E. $\frac{1}{4}$, 36-41-27, W. 4.....	2,847
75.4	Grade, S.E. $\frac{1}{4}$, 12-41-27 and S.W. $\frac{1}{4}$, 7-41-26, W. 4.....	2,782
76.6	Barnett lake, water, 2,782; grade.....	2,790
79.3	Lacombe, Canadian Pacific Ry., Edmonton branch, crossing.....	2,792
82.7	Lacombe junction, with Brazeau branch, 55.0 miles from Warden, in S.W. $\frac{1}{4}$, 6-40-26, W. 4 M.....	2,780
87.7	Junction (west) with Brazeau branch.....	2,839
93.2	Red Deer river, high water, 2,782; water, 2,778; grade.....	2,802
93.8	Red Deer station ground.....	2,809
95.0	Alberta Central Ry. crossing, A.C.Ry., rail, 2,882; C.N.Ry., grade.....	2,844
104.7	Grade, N.W. and N.E. $\frac{1}{4}$, 29-36-27, W. 4.....	3,033
111.7	Grade, middle, S.E. $\frac{1}{4}$, 31-35-27, W. 4.....	3,171

CANADIAN NORTHERN RAILWAY

277

vation
e mean
level

Miles from
Strathcona

CANADIAN NORTHERN RAILWAY—STRATHCONA
AND CALGARY BRANCH (*Projected*)

Elevation
above mean
sea level

303
301

122
337

368
448

492
596

476
502

539
539

493
404

326
402

477
442

443

440

340

205

211

329

288

308

364

484

590

573

692

742

808

708

822

811

847

782

790

792

780

839

802

809

844

033

171

117.7	Grade, south boundary, S.E. $\frac{1}{4}$, 5-35-27, W. 4	3,235
122.7	Grade, S.W. $\frac{1}{4}$, 7 and N.W. $\frac{1}{4}$, 6-34-27, W. 4 M	3,219
127.7	Grade, N.E. and S.E. $\frac{1}{4}$, 17-33-27, W. 4 M	3,107
131.9	Spruce coulee, water, 2,941; grade	3,042
135.6	Grade, S.W. $\frac{1}{4}$, 14 and N.W. $\frac{1}{4}$, 11-32-27, W. 4	3,126
140.7	Grade, S.E. $\frac{1}{4}$, 22 and N.E. $\frac{1}{4}$, 15-31-27, W. 4	3,051
141.2	Lone Pine creek, high water, 3,029; water, 3,024; grade	3,041
143.7	Grade, S.E. $\frac{1}{4}$, 3-31-27 and N.E. $\frac{1}{4}$, 33-30-27, W. 4	3,040
150.0	Grade, S.E. $\frac{1}{4}$, 4-30-27 and N.E. $\frac{1}{4}$, 33-29-27, W. 4	3,179
158.0	Rosebud creek, water, 3,030; grade	3,157
165.4	Crossfield creek, water, 3,133; grade	3,249
168.9	Grade, S.E. $\frac{1}{4}$, 6-27-27 and N.E. $\frac{1}{4}$, 36-26-28, W. 4	3,308
175.2	Grade, S.E. $\frac{1}{4}$, 1-26-28 and N.E. $\frac{1}{4}$, 36-25-28, W. 4	3,408
181.5	Grand Trunk Pacific Ry., Calgary branch, crossing	3,459
186.7	Grade, S.W. $\frac{1}{4}$, 18-24-28 and S.E. $\frac{1}{4}$, 13-24-29, W. 4 M	3,457
189.6	Junction switch	3,429
190.0	Barlow, junction with Saskatoon and Calgary branch, 393.3 miles from Saskatoon	3,428

Miles from
Warden

CANADIAN NORTHERN RAILWAY—BRAZEAU
BRANCH

0.0	Warden, junction with Battle River branch, 109.5 miles from Vegreville	2,724
0.6	Junction switch	2,721
7.4	Oberlin station	2,658
12.5	Nevis station	2,618
15.2	Sucker creek, bed, 2,519; rail	2,571
20.2	Alix station	2,598
22.6	Grand Trunk Pacific Ry., Calgary branch, crossing, G. T. P. Ry., rail, 2,622; C. N. Ry., rail	2,648
25.4	Summit, ground, 2,671; rail	2,656
27.6	Coghill station	2,628
33.6	Haynes station	2,839
37.2	Summit	2,961
40.6	Brooksley station	2,893
45.9	Prentiss station	2,966
51.1	Grade	2,857
54.4	Grade	2,776
55.0	Lacombe junction, with Strathcona and Calgary branch (projected)	2,780
55.1	Farrant station	2,786
59.2	Blindman river, water, 2,720; grade	2,818
60.0	Junction (west) with Strathcona and Calgary branch (projected)	2,839
60.7	Canadian Pacific Ry., Edmonton branch, crossing, C.P. Ry., rail, 2,828; C.N. Ry., rail	2,856
60.8	Bliniman station	2,856
65.5	Creek, bed, 2,855; rail	2,971
67.4	Tannis station	3,043
71.0	Norma station	3,138
75.0	Sylvan Lake station	3,079
80.0	Grade	3,239
81.0	Elspeth station	3,252
88.0	Medicine river, bed, 2,993; rail	3,046
89.1	Eckville station	3,044
96.4	Withrow station	3,078
96.6	Blueberry creek, bed, 3,023; rail	3,080
99.1	Summit	3,156

Miles from Warden	CANADIAN NORTHERN RAILWAY—BRAZEAU BRANCH	Elevation above mean sea level
100.7	Leslieville station.....	3,144
100.9	Lobstick creek, bed 3,125; rail.....	3,147
104.0	Horseguard creek, bed, 3,053; rail.....	3,099
109.2	Codner station.....	3,224
111.0	Summit.....	3,279
113.4	Lodge station.....	3,265
114.8	East junction, with Alberta Central railway.....	3,225
116.0	North Saskatchewan river, low water, 3,131; high water, 3,136; rail.....	3,201
117.6	Rocky Mountain House station.....	3,180
118.8	West junction, with Alberta Central railway.....	3,221
122.2	Ferrier station.....	3,322
126.2	Ground.....	3,416
131.2	Summit between North Saskatchewan and Baptiste rivers.....	3,471
132.3	Horburg station.....	3,444
134.9	Cabin creek, bed, 3,464; rail.....	3,535
139.0	Ground.....	3,683
143.1	Lamoral station (summit).....	3,818
147.1	Ground.....	3,712
150.3	Pollock station.....	3,733
152.3	Ground.....	3,786
155.7	Saunders station.....	3,923
157.0	Ground.....	3,972
159.8	Creek, bed, 4,012; rail.....	4,073
160.5	Stolberg station.....	4,094
163.6	Grade.....	4,179
166.4	Harlech station.....	4,176
168.7	Junction with spur to collieries.....	4,238
173.7	Nordegg station.....	4,470
174.3	Collieries siding.....	4,514

Projected Extension

168.7	Junction with Collieries spur.....	4,238
179.0	Ground, 4,538; grade.....	4,545
183.5	Summit between Mire creek and South Brazeau river.....	4,846
188.0	Ground, 4,636; grade.....	4,640
191.1	Depression, ground, 4,478; grade.....	4,480
194.3	South Brazeau river, high water, 4,511; water, 4,508; grade....	4,532
200.0	End of profile, grade.....	5,000

Miles from
Oliver

CANADIAN NORTHERN RAILWAY—OLIVER BRANCH
(Projected)

0.0	Oliver, junction with main line, 1,259.1 miles from Port Arthur...	2,143.9
5.0	Grade.....	2,181
7.3	Station ground.....	2,194
12.0	Grade.....	2,211
17.8	Sturgeon river, grade.....	2,102

Miles from
Edmonton

CANADIAN NORTHERN RAILWAY—ATHABASKA
BRANCH

0.0	Edmonton, junction with main line.....	2,185.4
1.5	Edmonton junction, with Stony Plains branch.....	2,196
4.5	Grand Trunk Pacific Ry., main line, crossing.....	2,183
9.5	St. Albert, junction with main line.....	2,172

CANADIAN NORTHERN RAILWAY

279

Miles from
EdmontonCANADIAN NORTHERN RAILWAY—ATHABASKA
BRANCHElevation
above mean
sea level

9.7	Jump station.....	2,176
22.6	Medicine Hat station.....	2,293
	Summit.....	2,336
33.0	Leard station.....	2,287
40.7	Dundre station.....	2,168
46.7	Clyde station.....	2,142
53.6	Nestow station.....	2,083
60.2	Tawatinaw station.....	2,024.7
65.9	Rochester station.....	2,040.0
73.9	Lewiston station.....	1,980.3
82.3	Meanook station.....	1,883.3
87.0	Colinton station.....	1,795.4
94.7	Athabaska Landing station.....	1,600.2

Miles from
EdmontonCANADIAN NORTHERN RAILWAY—STONY PLAINS
BRANCH

0.0	Edmonton, junction with main line.....	2,155.4
1.5	Edmonton junction, main line switch.....	2,176
15.5	Spruce Grove station.....	2,359
21.0	Stony Plains station.....	2,339

Miles from
Peace River
Junc.CANADIAN NORTHERN RAILWAY—PEACE RIVER
BRANCH (*Under Construction*)

0.0	Peace River junction, with main line, 1,302.8 miles from Port Arthur.....	2,350
0.5	Creek, bed, 2,341; rail.....	2,352
2.4	Sturgeon river, bed, 2,353; rail.....	2,371
5.8	Creek, bed, 2,405; rail.....	2,413
10.1	Alexis Indian reserve, rail.....	2,481
15.1	Summit, rail.....	2,435
17.6	Depression, rail.....	2,384
21.9	Old-man creek, bed, 2,345; rail.....	2,366
24.2	Coyote creek, bed, 2,323; rail.....	2,349
32.1	Pembina river, bed, 2,150; rail.....	2,224
33.9	Lake St. Anne trail, ground, 2,271; rail.....	2,269
35.8	Entwistle trail, ground, 2,296; rail.....	2,299
36.9	South Paddle river, bed, 2,176; rail.....	2,272
38.8	Creek, bed, 2,268; rail.....	2,286
43.9	Lake St. Anne and Entwistle trail, ground, 2,285; rail.....	2,318
43.9	North Paddle river, bed, 2,265; rail.....	2,318
55.0	Summit, rail.....	2,436
59.5	Creek, bed, 2,371; rail.....	2,419
63.2	Creek, bed, 2,282; rail.....	2,377
66.9	Creek, bed, 2,242; rail.....	2,290
72.7	McLeod river, high water, 2,269; ice (March 18, 1911), 2,262 rail.....	2,279
76.0	Athabaska river, bed, 2,284; rail.....	2,309
81.0	Creek, bed, 2,340; rail.....	2,345
87.5	Creek, bed, 2,387; water, 2,389; rail.....	2,397
98.0	Athabaska river, high water, 2,476; water (March 2, 1911), 2,466; rail.....	2,490
103.5	Trail creek, water (Sept. 18, 1911), 2,521; grade.....	2,526
108.5	Creek, bed, 2,571; grade.....	2,580
112.4	Summit, divide between Smoky and Athabaska waters, grade.....	2,630
118.6	Creek, bed, 2,573; grade.....	2,591

Miles from
Peace River
Junc.

CANADIAN NORTHERN RAILWAY—PEACE RIVER
BRANCH (*Under Construction*)

Elevation
above mean
sea level

130.4	Hash creek, water (Oct. 28, 1911), 2,429; grade	2,466
133.4	Grade, tp. 64, R.19, W. 5 M.	2,421
138.7	Creek, bed, 2,423; grade	2,425
142.6	Issegun river, high water, 2,383; water (June 26, 1912), 2,374; grade	2,443
143.3	Grade	2,449
148.2	Creek, bed, 2,335; grade	2,399
157.2	Little Smoky river, high water, 2,131; water (Aug. 6, 1912), 2,120; grade	2,211
164.6	Creek, bed, 2,237; grade	2,255
173.6	Creek, bed, 2,425; grade	2,450
174.9	Summit, grade	2,482
181.3	Goose creek, bed, 2,275; grade	2,327
184.8	Grade, line between sec. 34, tp. 69 and sec. 3, tp. 70, R.24, W.5 M.	2,378
190.4	Grade, crossing line between secs. 11 and 14, tp. 70, R.25, W.5 M.	2,393
197.9	Cornwall creek, bed, 2,136; grade	2,260
200.0	Grade, R. 26, W. 5 M.	2,152
206.7	Intersection of Sixth meridian, grade	2,067
212.3	Wettas creek, bed, 1,998; grade	2,038
216.7	Tunnel, east portal, 1,790; west portal	1,783
218.9	Simonette river, high water, 1,591; water (Sept. 23, 1912), 1,580; grade	1,674
219.5	Smoky river, high water, 1,591; water (Sept. 25, 1912), 1,579; grade	1,674
227.4	Creek, bed, 2,050; grade	2,078
233.3	Dead Horse creek, bed, 2,102; grade	2,121
246.1	Poplar creek, bed, 2,059; grade	2,114
238.7	Grade, sec. 21, tp. 71, R.5, W.6 M.	2,148
241.7	Grade, crossing line between 19-71-5 and 24-71-6, W.6 M.	2,151
243.1	Bear creek, high water, 2,116; water, 2,110; grade	2,149
246.2	Grade, sec. 29, tp. 71, R.6, W.6 M.	2,188
254.9	Dry creek, bed, 2,253; grade	2,268
258.2	Grade, sec. 26, tp. 72, R.8, W.6 M.	2,339
263.8	South branch Fish creek, bed, 2,427; grade	2,434
265.4	Grade, crossing line between 2-73-9, and 35-72-9, W.6 M.	2,470
267.7	Summit, grade	2,535
270.0	Grade, sec. 18, tp. 73, R.9, W.6 M.	2,502
272.5	Grade, sec. 23, tp. 73, R.10, W.6 M.	2,460
279.0	Grade, sec. 1, tp. 74, R. 11, W. 6 M.	2,538
283.2	Creek, bed, 2,583; grade	2,589
288.0	Summit, rail	2,652
294.0	Lake, water, 2,562; grade	2,573
297.4	Grade	2,551
300.0	Boundary between Alberta and British Columbia, grade	2,499

Miles from
Kamloops
Junc.

CANADIAN NORTHERN RAILWAY—KAMLOOPS
BRANCH (*Projected*)

0.1	Kamloops junction, with main line, 1,781.1 miles from Port Arthur	1,150
0.1	North Thompson river, high water 1,127; water 1,118; rail	1,153
3.0	Kamloops station ground	1,134
4.1	Industrial school, rail	1,150
10.5	Creek, high water, 1,128; rail	1,141
14.8	South Thompson river, high water (1894), 1,133; ordinary high water, 1,128; rail	1,176
19.0	Grade	1,533
23.0	Grade	1,930
24.2	Monte creek, water, 2,002; rail	2,053
24.5	Monte creek, water, 2,070; rail	2,082

Miles from
Kamloops
Junc.

CANADIAN NORTHERN RAILWAY—KAMLOOPS
BRANCH (*Projected*)

Elevation
above mean
sea level

33.0	Monte lake, rail.	2,264
37.2	Station ground.	2,123
43.0	Salmon river, low water (Aug., 1912), 1,937; rail.	1,945
46.5	Station ground.	1,926
51.7	Station ground.	1,748
52.0	Salmon river, rail.	1,748
59.0	Grade.	1,623
66.0	Grade.	1,308

CANADIAN NORTHERN RAILWAY—VANCOUVER
ISLAND LINE (*Under Construction*)

Miles from
Victoria

0.0	Victoria station.	36
1.5	B.C. Electric Railway crossing, B.C.E. Ry., rail, 41; C.N. Ry., rail.	18
2.0	Patricia Bay junction.	52
2.5	B.C. Electric Railway crossing, B.C.E. Ry., rail, 20; C.N. Ry., rail.	47
4.0	Summit, ground, 103; rail.	72
5.5	Esquimalt and Nanaimo Ry. crossing, E. and N. Ry., rail, 65; C.N. Ry., rail.	39
7.6	Mill stream, bed, 89; rail.	113
8.7	Colwood station.	206
10.3	Luxton station.	229
14.5	Happy Valley station.	175
15.4	Metchosin station.	213
18.4	Pedder Bay station.	135
24.3	Cooper Cove station.	36
27.0	Sooke River road, rail.	117
30.0	Near Sooke river, rail.	273
34.6	Wolfe creek, bed, 455; rail.	451
37.3	Goldstream road, ground, 594; rail.	618
40.0	Lake, water level as raised by city of Victoria.	575
43.5	lake, water level as raised by city of Victoria.	575
48.0	lake, bed 419; rail.	668
50.0	Sooke River lake, water.	446
52.2	Koksilah river, bed, 301; rail.	385
53.9	Summit, rail.	429
59.3	Deerholme station.	493
60.8	Sutton creek, bed, 173; rail.	296
63.1	Depression, near Cowichan river, rail.	286
67.3	Cowichan river, Cañon crossing, bed, 297; rail.	212
71.3	Cowichan river, Siwash Rips crossing, bed, 454; rail.	406
74.3	Cowichan river, Riverside crossing, bed, 523; rail.	490
76.3	Summit, rail.	562
84.1	Cottonwood creek, bed, 564; rail.	636
88.3	McKay creek, bed, 573; rail.	583
90.0	Cowichan lake, water.	584
92.3	Shaw creek, bed, 565; rail.	531
96.1	Summit, rail.	582
98.2	Vernon creek, bed, 470; rail.	642
101.6	Angus creek, bed, 160; rail.	527
104.9	Nitinat river, bed, 42; rail.	273
113.2	Little Nitinat river, bed, 506; rail.	82
116.5	Francis lake, water, 718; rail.	556
117.7	Darlington lake, water, 721; rail.	730
118.6	Coleman Creek summit, rail.	736
121.0	Creek, bed, 527; rail.	790
		647

Miles from Victoria	CANADIAN NORTHERN RAILWAY—VANCOUVER ISLAND LINE (<i>Under Construction</i>)	Elevation above mean sea level
124.4	North fork Coleman creek, bed, 309; rail.....	420
126.4	Creek, bed, 205; rail.....	321
131.5	Franklin creek, bed, 9; rail.....	19
<i>Projected Extension</i>		
145.4	Cherry creek, bed, 11; rail.....	27
149.8	Creek, branch of Stamp river, rail.....	269
152.8	Near branch of Stamp river, rail.....	318
155.8	Back from Stamp river, rail.....	507
158.8	Back from Stamp river, rail.....	719
160.8	Tributary of Stamp river, bed, 745; rail.....	858
167.1	Creek, bed, 1,208; rail.....	1,257
169.8	Comox summit, ground.....	1,377
172.2	Creek, bed, 1,038; rail.....	1,155
183.0	Comox lake, water, 439; rail.....	463
181.8	Summit, ground, 520; rail.....	513
185.2	Canadian Collieries Co. Ry. crossing.....	455
185.8	Canadian Collieries Co.'s flume, 430; C.N.Ry., rail.....	434
191.3	Esquimalt and Nanaimo Ry. crossing, E. & N. Ry., rail, 95; C.N. Ry., rail.....	54
191.6	Puntledge river, bed, 18; rail.....	38
193.3	Tsolum river, bed, 11; rail.....	27
196.7	Government waggon road, rail.....	147
200.0	Summit, rail.....	280
202.3	Black creek, bed, 201; rail.....	211
210.0	Oyster river, bed, 257; rail.....	297
216.4	Quinsam river, bed, 259; rail.....	333
222.6	Campbell river, bed, 385; rail.....	488
227.0	Summit, rail.....	607
230.0	Lower Campbell lake, bed.....	532
233.8	Little river, bed, 533; rail.....	551
240.0	Upper Campbell lake, bed.....	622
250.0	Buttles lake, high water.....	728
253.2	Elk river, bed, 836; rail.....	895
256.3	Elk river, bed, 1,034; rail.....	1,050
257.0	Drum lake, water.....	1,035
257.4	Summit lake, water.....	1,082
257.4	Summit, ground, 1,095; rail.....	1,087
259.2	Gold river, bed, 945; rail.....	1,011
264.0	Bartlett creek, bed, 643; rail.....	740
269.0	West fork Gold river, bed, 220; rail.....	316
272.0	Along Gold river, rail.....	193
278.5	Near Muchalat arm of Nootka sound, rail.....	33
CANADIAN NORTHERN RAILWAY—PATRICIA BAY BRANCH (<i>Projected</i>)		
Miles from Victoria		
0.0	Victoria station.....	36
2.0	Patricia Bay junction.....	52
2.2	Victoria and Sydney Ry. crossing, V. & S. Ry., rail, 92; C.N.Ry., rail.....	62
4.2	Lost lake, water, 86; rail.....	93
5.6	Summit, rail.....	126
12.0	Near Cordova channel, rail.....	51
14.9	Victoria and Sydney Ry. crossing.....	39
15.7	British Columbia Electric Ry. crossing, rail.....	44
17.2	Patricia Bay, ferry transfer, rail.....	6

Miles from
Halifax

INTERCOLONIAL RAILWAY—MAIN LINE

Elevation
above mean
sea level

	Halifax wharf	14
0-00	Halifax station.....	58-9
0-75	Richmond station.....	19-1
2-98	Fairview station.....	11-7
4-07	Rockingham station.....	9-4
8-68	Bedford station.....	42-2
9-10	Sackville River bridge, rail.....	44-4
10-51	Lily Lake, station (summit).....	141
10-51	Lily lake water (Sept. 27, 1907).....	132
11-38	Rocky lake, water (Sept. 27, 1907).....	125-8
11-42	Rocky lake station.....	133-3
12-50	Lake View station.....	135-6
13-27	Waverley siding.....	137
13-91	Windsor junction, with Dominion Atlantic Ry. and Dartmouth branch.....	128-4
15-31	Fall River siding.....	131-7
16-00	Long lake, water (Sept. 30, 1907).....	83-9
18-01	Kinsac station.....	94-1
18-65	Fall river, bed, 85; rail.....	94-2
19-96	Rawdon river, bed, 77; rail.....	89-6
20-55	Fletcher river, water, 48; rail.....	75-1
21-31	Wellington station.....	79-4
23-07	Grand Lake station.....	57-7
24-00	Grand lake, water (Oct. 3, 1907).....	43-0
24-27	Oakfield station.....	61-9
25-03	Sandy Cove station.....	68-3
27-68	Enfield station.....	60-5
27-80	Shubenacadie river, water (Oct., 1907), 36-5; rail.....	58-2
28-44	Malcolm station.....	51-9
30-13	Elmsdale station.....	50-0
30-50	Nine-mile river, water, 33; rail.....	53-8
31-93	Lantzing siding.....	59-2
34-68	Summit, rail.....	100
36-38	Milford station.....	54-2
38-50	Dewis station.....	48-5
40-09	Shubenacadie station.....	57-5
40-67	Shubenacadie river (tide water), rail.....	49-5
44-56	Stewiacke station.....	81-9
46-40	Stewiacke river, water, 22; rail.....	42-2
46-54	Dickie station.....	43-1
47-16	McKay siding.....	42-7
49-05	Alton station.....	96-5
51-43	Graham siding.....	109-2
53-81	Brookfield station.....	100-0
56-00	Summit, ground, 186; rail.....	180
57-41	Hilden station.....	140-1
61-83	Truro, junction with Mulgrave branch and Dominion Atlantic Ry., Truro branch	59-7
62-45	Salmon river, water, 34-5; rail.....	51-3
63-80	North river, water, 27; rail.....	39-7
64-30	Onslow station.....	34-2
68-55	Isgonish river, water, 63-5; rail.....	83-1
69-34	Belmont station.....	84-4
72-94	Debert station.....	155-7
73-13	Belmont river, water, 132; rail.....	152-4
75-22	East Mines station.....	195-7
76-00	Folly river, water, 109; rail.....	193-6

Miles from
Halifax

INTERCOLONIAL RAILWAY—MAIN LINE

Elevation
above mean
sea level

78.77	Londonderry station.....	335.3
86.00	Folly lake, water (Aug. 27, 1907).....	601.0
86.27	Folleigh station (summit).....	611.6
90.90	Wentworth station.....	469.5
93.51	Giles siding, west end.....	395.2
95.41	Westchester station.....	310.7
96.78	Greenville station.....	283.5
99.42	Atkinson station.....	246.1
104.09	Thomson station.....	106.0
108.19	Oxford junction, with Oxford branch.....	92.0
108.30	River Philip, water 40; rail.....	93.3
110.41	River Philip station (summit).....	169.3
114.40	Saltsprings station.....	150.6
120.91	Springhill junction, with Cumberland Ry. and Coal Co.'s Ry.....	198.6
124.09	Little Forks river, water, 38; rail.....	70.9
126.38	Athol station.....	133.6
130.02	Maccan, junction with Maritime Coal, Railway & Power Co.....	31.1
133.54	Nappan station.....	28.2
134.14	Nappan river, bed, 14; high water, 23; rail.....	31.8
134.32	Pugsley siding.....	28.2
138.03	Amherst station.....	59.4
139.85	Planche river, high water, 26; rail.....	29.8
140.65	Fort Lawrence siding.....	33.3
141.50	Missiguash river, boundary between Nova Scotia and New Brunswick (tide water), rail.....	32.4
144.23	Aulac station.....	23.8
145.55	Coles Island siding.....	23.6
147.89	Sackville, junction with New Brunswick and Prince Edward Id. Ry.....	24.3
153.75	Summit.....	229.1
154.39	Evans station.....	190.3
159.33	Dorchester station.....	21.1
162.03	Upper Dorchester station.....	25.3
164.90	College Bridge station.....	28.0
166.77	Memramcook station.....	29.0
171.48	Calhoun station.....	49.9
173.80	Meadow Brook station.....	82.5
178.61	Painsec, junction with Pt. du Chêne branch.....	148.4
181.16	Harrisville siding.....	125.7
183.50	Buctouche and Moncton Ry. crossing.....	69.0
183.83	Humphrey station.....	56.6
186.00	Moncton, junction with St. John branch.....	50.0
193.41	Berry Mills station.....	216.3
197.87	Catamount siding (summit).....	346.7
199.02	South Cocagne river, water, 293; rail.....	303.4
201.11	Gallagher station.....	338.1
204.89	Canaan station.....	262.3
210.29	Birch Ridge siding.....	299.6
212.90	Coal branch, South fork, bed, 166; rail.....	221.7
213.49	Coal Branch station.....	215.7
213.71	Coal branch, North fork, bed, 160; rail.....	210.6
216.76	Adamsville station (summit).....	299.4
218.61	Trout Brook siding.....	214.8
222.58	Harcourt station.....	200.3
224.33	Richibucto river, water, 96; rail.....	130.3
231.55	Kent junction, with Kent Northern Ry.....	269.0
232.37	Kouchibouguac river, water, 199; rail.....	231.3
237.55	Belliveau station.....	271

Miles from
Halifax

INTERCOLONIAL RAILWAY—MAIN LINE

Elevation
above mean
sea level

238.58	Kouchibouguac river, water (Sept. 14, 1904), 209; rail	271.5
239.59	Acadieville siding	308.1
242.52	Rogersville station	304.0
243.52	Barnaby river, rail	254.0
245.26	Tunnel station	225.4
246.56	Barnaby river, water, 125; rail	152.9
249.20	Lakeland station	140
251.26	Right-hand brook, water, 79; rail	99.9
254.41	Barnaby River station	56.4
256.90	Summit	141
258.03	Chatham junction, with Fredericton branch	129.5
259.73	Southwest Miramichi river, ordinary high water, 2.5; rail	34.0
260.54	Derby, junction with Indiantown branch	34.9
261.16	Northwest Miramichi river, ordinary high water, 2.5; extreme high water, 5; rail	30.1
264.24	Newcastle station	138.0
273.44	Beaver Brook station	332.1
273.55	Beaver brook, water, 318; rail	324
280.40	Bartibogue river, bed, 385; rail	419.2
284.96	Bartibogue station (summit)	520.2
289.24	Russell siding	488.5
294.86	Red Pine station	333.1
297.70	Little Red Pine brook (tank), bed, 219; rail	234.4
299.37	Red Pine brook, water, 189; rail	214.9
302.96	Caraquet Railway junction switch	118.4
303.03	Gloucester junction, with Caraquet Ry	102.7
304.00	Nipisiguit river, bed, 48; rail	90.6
306.22	Little river, bed, 44; rail	62.7
308.17	Bathurst station	47.9
311.17	Tête-à-Gauche river (tidewater), rail	70.0
314.55	Beresford station	32.1
316.73	Nigadoo station	55.5
319.60	Petit Rocher station	82.7
321.35	Elm-tree station	106.3
327.67	Belledune station	93.1
331.50	Belledune river, bed, 55; rail	109.2
333.31	Culligan siding	143.0
336.59	Jacquet River station	49.8
337.70	Jacquet river, high water (June 25, 1904), 2, rail	22.1
340.09	Nash Creek station	22.5
343.17	Dickie station	42.5
346.42	New Mills station	41.2
351.25	Charlo river, North branch (tidewater), rail	28.6
352.23	Charlo station	54.6
357.82	Eel River station	29.8
362.17	Dalhousie junction, with Dalhousie branch	81.7
368.70	Mill creek (tidewater), rail	32.6
371.02	Campbellton, junction with International Railway	42.0
376.10	Moffatt station	35.6
380.58	Flatlands station	62.4
382.26	Fraser siding	70
383.10	Restigouche river, freshet water, 31; summer water, 13; (Sept. 25, 1910), 23.0; rail	53.2
383.78	Matapedia, junction with Quebec Oriental Ry	54.0
393.58	Millstream station	140.8
393.58	Matapedia river, opposite station, water	117
394.66	Matapedia river, 1st crossing, water, 131; rail	150.0

Miles from
Halifax

INTERCOLONIAL RAILWAY—MAIN LINE

Elevation
above mean
sea level

400.85	McKinnon brook, water, 201; rail.....	232.
404.85	Assametquaghan station.....	280.
411.87	Beau Rivage station.....	353.7
412.90	Matapedia river, 2nd crossing, water (Oct. 6, 1903), 351; rail.....	372.6
414.00	Smith mill-pond, water, 400; rail.....	412
418.05	Matapedia river, 3rd crossing, water, 426; rail.....	455.1
418.36	Causapsal station.....	454
424.10	Salmon Lake station.....	503
431.73	Amqui station.....	532
440.00	Lake Matapedia, high water, 527.6; low water (Aug., 1909).....	513
440.06	Val Brillant station.....	536.7
446.70	Sayabec station.....	581.1
449.95	Saucier station.....	691.7
451.20	Lake Malfait, water (Aug. 9, 1909).....	731.4
451.70	Summit.....	751.1
454.17	St. Moise station.....	644.5
461.70	Summit.....	716
462.16	Kempt station.....	713.0
466.99	Little Métis station.....	566.6
470.77	St. Octave station.....	387.1
473.20	Grand Métis river, water, 209; rail.....	269.0
476.11	Ste. Flavie station.....	262.6
484.22	Ste. Luce station.....	175.8
489.45	St. Anaclet station.....	96.3
493.60	Switch spur to Rimouski wharf.....	88.0
494.13	Rimouski station.....	77.8
494.55	Rimouski river, high water, spring tides, 8.4; ordinary low water, 1; rail.....	42.5
498.32	Sacré Cœur station.....	22.0
504.53	Little Bic river, water, 44; bed, 35; rail.....	88.5
504.59	Bic station.....	81.7
512.15	R. Sud Ouest or Grand Bic, water, 340.5; rail.....	370.8
513.92	St. Fabien station.....	446.1
523.84	St. Simon station.....	300.6
532.36	Trois Pistoles station.....	114.6
535.06	Riv. Trois Pistoles, high water, 7; low water, 1; rail.....	68.9
535.61	McKenzie station.....	70.1
538.68	St. Eloi station.....	139.2
543.18	Isle Verte station.....	109.0
543.90	Riv. Verte, high water, 94; low water, 87; rail.....	126.6
551.00	Summit, ground, 500 feet west, 300; rail.....	293.0
551.69	St. Arsène station.....	275.0
553.85	Cacouna station.....	245.7
559.35	Rivière du Loup, high water, 286; low water, 276; rail.....	315.1
559.39	Rivière du Loup, junction with Temiscouata railway.....	314.9
563.20	Riv. des Prairies, water, 315; rail.....	338
565.35	Old Lake Road station.....	349.4
569.25	Summit.....	428.0
571.14	St. Alexandre station.....	369.0
575.68	St. André station.....	345.2
579.16	Ste. Hélène station.....	318.4
584.72	St. Paschal station.....	192.1
585.60	Kamouraska river, bed, 161; rail.....	175.9
590.59	St. Philippe de Néri station.....	143.2
594.26	Rivière Ouelle junction, with Rivière Ouelle branch.....	46.4
604.45	Rivière Ouelle wharf.....	18.9

Miles from
Halifax

INTERCOLONIAL RAILWAY—MAIN LINE

Elevation
above mean
sea level

594.80	Rivière Ouelle, water, 21; rail.....	41.7
595.99	St. Pacôme station.....	53.7
600.38	Ste. Anne station.....	100.7
600.75	Ste. Anne river, bed 80; rail.....	100.5
603.39	Pointe Rouge station.....	97.0
607.81	Ste. Louise station.....	119.7
609.80	Riv. Ferrée, water, 119; bed, 111; rail.....	132.1
611.64	Elgin Road station.....	162.8
614.40	Summit, ground, 188; rail.....	185
615.56	St. Jean Port Joli station.....	176.0
618.20	Riv. Trois Saumons, water, 103; rail.....	117.0
619.81	Trois Saumons station.....	99.1
622.25	Riv. à la Tortue, East branch, bed, 69; rail.....	76.4
622.80	Riv. à la Tortue, West branch, bed, 68; rail.....	79.1
623.93	L'Islet station.....	103.2
627.29	L'Anse à Giles station.....	117.3
630.44	Cap St. Ignace station.....	129.1
637.00	Riv. du Sud, water, 44; bed, 41; rail.....	56.2
637.26	Montmagny station.....	53.8
642.20	St. Pierre station.....	130.0
645.46	St. François station.....	133.6
650.58	St. Valier station.....	155.5
653.96	St. Michel station.....	170.8
655.70	River Boyer, water, 142; rail.....	172.4
660.42	St. Charles, junction with Chaudière branch.....	296.2
661.70	Summit.....	335
662.50	Lake Beaumont, water, Aug. 3, 1908.....	320.1
663.66	Ville Marie station.....	323.4
669.30	Harlaka, junction with Quebec Central railway.....	240.0
671.77	St. Joseph station.....	87.8
673.90	Lévis station.....	16.0
674.87	Pointe Lévis station.....	16.8
	River St. Lawrence at Lévis, extreme high tide (Nov. 5, 1884, 16.88; ordinary high tide.....	7.38
676.36	Hadlow station.....	18.9
678.20	St. Romuald station.....	70.9
681.98	Chaudière Curve station.....	232.5
682.58	Chaudière junction, with Chaudière branch.....	235.1
682.66	Chaudière river, water, 180; rail.....	234.8
683.17	Chaudière station, junction with Grand Trunk Ry., Quebec branch	236.1
685.40	Terrebonne river, bed, 240; rail.....	259.4
686.54	St. Nicolas station.....	265.0
689.70	Vicontent river, bed, 261; rail.....	282.9
690.80	4th Range road crossing.....	323.8
695.27	St. Apollinaire station.....	323.1
699.30	Summit, ground, 440; rail.....	436.0
703.24	Laurier station.....	369.5
706.60	Rivière Chienne, water, 364; rail.....	375.6
708.38	Fortier station.....	382
709.40	River Henri, water, 376; rail.....	392.0
713.40	Riv. du Chêne, water, 374; rail.....	391.1
713.89	De Lothinière station.....	391.3
714.90	Rivière Edmond, water, 373; rail.....	395.3
720.11	Ville Roy, junction with Lotbinière and Megantic railway.....	394.1
720.19	Lotbinière and Megantic Ry. crossing.....	393.6
726.36	Riv. du Chêne, water, 295; rail.....	309.3
726.43	Manseau station.....	310.0

Miles from
Halifax

INTERCOLONIAL RAILWAY—MAIN LINE

Elevation
above mean
sea level

727.00	Summit.....	336
730.83	Soulards station.....	316.6
733.96	Gentilly river, water, 290; rail.....	299.5
734.32	Lemieux station.....	299.4
737.72	Lavergne station.....	298.0
740.58	River Bécancour, water, 255; rail.....	289.1
740.68	Daveluyville station.....	289.2
745.86	Aston, junction with Grand Trunk Ry, Doucet Landing branch.....	288.3
749.56	St. Wenceslas station.....	292
753.90	St. Leonard junction, with Nicolet branch.....	243
754.20	Northeast branch Nicolet river, water, 160; rail.....	237
758.67	Ste. Perpétue station.....	234
760.07	Mitchell station.....	236
760.30	Southwest branch Nicolet river, water, 206; rail.....	236
762.62	Blake siding.....	269
765.63	Carmel station (summit).....	304
767.10	Riv. des Saults, bed, 267; rail.....	281
768.38	St. Cyrille station.....	284
771.80	St. Francis river, high water, 265; low water, 257; rail.....	270
771.96	Drummondville station.....	288
775.10	Black river, bed, 245; rail.....	256
776.44	St. Germain station.....	262
780.30	Summit.....	326
781.26	Duncan station.....	299
782.64	St. Eugène station.....	274
787.79	Carot station.....	239
788.96	Riv. de Chibouette, bed, 217; rail.....	226
792.26	St. Edward station.....	234
793.78	St. George station.....	203
798.61	Ste. Rosalie, junction with Grand Trunk Ry., 38.0 miles from Montreal.....	111

Miles from
Windsor Junc.

INTERCOLONIAL RAILWAY—DARTMOUTH BRANCH

0.00	Windsor junction, with main line, 13.91 miles from Halifax.....	128.4
0.60	Three-mile lake, water, 96; rail.....	115
1.86	Waverley station.....	73
6.20	Summit, rail and ground.....	143
12.00	Dartmouth station.....	14.5
14.78	" sugar refinery.....	15.5

Miles from
Ferrona

INTERCOLONIAL RAILWAY—SUNNYBRAE BRANCH

0.00	Ferrona, junction with Mulgrave branch.....	140.8
0.47	West branch East river of Pictou, water, 65; bed, 63; rail.....	107
0.70	Siding.....	113
2.73	East river of Pictou, water, 120; bed, 118; rail.....	143
4.79	Springville siding.....	182
5.19	Lime Quarry siding.....	164
6.12	Cameron Mine siding.....	184
6.46	Bridgeville station.....	177
6.93	McDonald Mine siding.....	180
7.61	Charcoal junction.....	191
8.81	St. Paul siding.....	206
10.79	Black Rock siding.....	257
12.51	Sunnybrae station.....	267

Miles from Truro	INTERCOLONIAL RAILWAY—MULGRAVE BRANCH	Elevation above mean sea level
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0.00	Truro , junction with main line, 61.83 miles from Halifax	59.7
2.94	Murray siding...	103.2
4.39	Valley station...	110.9
8.45	Union station...	219.9
12.55	Riversdale station...	316.2
16.26	Campbell station...	415.3
18.97	Lansburg tank (summit)	512.4
20.46	West River station...	447.3
20.80	West river of Pictou, bed, 426; rail	434
23.25	Gordon Summit siding (summit)	565.6
25.25	Lansdowne station...	463.5
28.15	Glengarry station...	392.8
29.80	Lorne station...	355.1
34.67	Hopewell station...	203.0
36.10	Eureka siding...	148.0
36.83	Ferrona, junction with Sunnybrae branch	140.8
38.70	Riverton station...	128.6
40.51	Stellarton, junction with Pictou Town branch...	62.1
42.57	New Glasgow , junction with Pictou Landing branch	32
45.85	Summit...	221
48.38	Woodburn station...	143
50.45	Pine Tree station...	20
52.70	West Merigomish station	69
56.09	Merigomish station...	20
60.88	Piedmont station...	263
62.05	Summit...	291
64.66	Avondale station...	151
65.73	Dewar Mills station...	151
66.67	Barney River station	205
70.60	Marshy Hope station	418
71.65	Summit...	448
74.46	James River station	5
78.52	Brierly Brook station	
83.95	Antigonish station	
89.05	South River station	22
91.90	Taylor Road station	122
93.83	Pomquet station...	27
96.09	Heatherton station	76
97.65	Summit...	188
98.42	Bayfield Road station	132
99.88	Afton station...	131
103.97	Tracadie station...	41
105.18	Monastery station...	13
108.66	Linwood station...	142
112.70	Harbour au Bouche station	301
116.91	Cape Porcupine station...	398
122.30	Mulgrave station...	9

Miles from Point Tupper	INTERCOLONIAL RAILWAY—CAPE BRETON BRANCH	
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0.00	Point Tupper station, high water, 3.6; low water,—3.6; rail...	9
1.50	Inverness junction, with Inverness and Richmond Railway	28
4.45	Mines Road station (summit), ground, 151; rail...	142
6.10	Beaver-dam lake, bed, 92; rail...	111
7.30	McIntyre Lake station...	133
9.80	River Inhabitants, water, 0; rail...	21
13.90	West Bay Road station...	214

Miles from
Point Tupper

INTERCOLONIAL RAILWAY—CAPE BRETON BRANCH

Elevation
above me-
an sea level

16.10	Summit, ground, 298; rail	28
21.20	River Denys station	72
23.10	River Denys, bed, —5; rail	12
26.40	Summit, ground, 66; rail	61
29.10	Orangedale station	12
32.60	Summit, ground, 81; rail	79
34.22	Alba station	15
38.10	Summit, ground, 108; rail	89
39.90	McKinnon Harbour station	9
45.40	Iona station	12
45.60	Narrows between Bras d'Or Lakes and St. Andrew channel (water), rail	12
46.20	Grand Narrows station	12
51.30	Summit, ground, 94; rail	92
54.75	Shenacadie station	14
63.45	Boisdale station	12
68.88	Barachois station	21
74.50	George River station	37
75.04	Diversion switch, junction with North Sydney branch	14
77.00	Scotch Lake brook, bed, 130; rail	141
78.20	North Sydney junction, with North Sydney branch	157
80.75	Leitch Creek station	10
81.60	Ball creek, water, 0; rail	10
85.00	Summit, ground, 121; rail	114
88.00	Sydney harbour (tidewater), rail	27
90.90	Sydney and Louisburg Ry. junction	7
91.10	Sydney station	8
92.20	" Battery Point wharf	10

Miles from
North Sydney
Junc.

INTERCOLONIAL RAILWAY—NORTH SYDNEY BRANCH

0.0	North Sydney junction, with Cape Breton branch	157
4.4	North Sydney station	41
7.0	Sydney Mines station	61
9.5	Florence station	35
10.8	Gannon station	25
11.0	Little Bras d'Or station	21
14.0	Watson station	11
16.2	Diversion switch, junction with Cape Breton branch	14

Miles from
New Glasgow

INTERCOLONIAL RAILWAY—PICTOU LANDING BRANCH

0.00	New Glasgow, junction with Mulgrave branch, 42.57 miles from Truro	32
1.60	Trenton station	44
4.52	Glenfalloch siding	73
4.78	Summit	78
8.51	Pictou Landing station	13

Miles from
Stellarton

INTERCOLONIAL RAILWAY—PICTOU TOWN BRANCH

0.00	Stellarton, junction with Mulgrave branch, 40.51 miles from Truro	62.1
2.55	Intercolonial Coal Co. Ry. crossing	177.6
3.03	Westville station (summit)	222.7
5.57	Alma station	86.8

CANADIAN GOVERNMENT RAILWAYS

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Miles from Stellarton	INTERCOLONIAL RAILWAY—PICTOU TOWN BRANCH	Elevation above mean sea level
7.00	Middle river of Pictou (tidewater), rail	
7.49	Sylvester station	20.6
10.46	Lochbroom station	12.2
11.90	Browns Point, junction with Oxford branch	11.8
13.50	Pictou station	10.3

Miles from Oxford Junc.	INTERCOLONIAL RAILWAY—OXFORD BRANCH	
0.00	Oxford junction, with main line, 108.19 miles from Halifax	
2.91	Oxford station	92
6.10	Summit	42
11.39	Conns Mills station	155
14.60	Summit	25
15.72	Pugwash junction, with Pugwash branch	5
20.26	Pugwash station	10
20.38	Wallace Bridge station	17
21.40	Wallace river (tidewater), rail	
23.29	Wallace station	51
27.56	Malagash station	132
30.70	McCallum station	43
35.38	Fatamagouche station	98
40.10	Road crossing	16
42.04	Denmark station (summit)	40
47.51	River John station	143
48.60	River John, low water, 0; rail	69
52.30	Rogers siding (summit)	64
55.51	Meadowville station	299
60.55	Scotsburn station (summit)	116
65.10	Lyons Brook station	253
67.79	Browns Point, junction with Pictou Town branch	59.8
69.39	Pictou station	16.3

Miles from Sackville	INTERCOLONIAL RAILWAY—NEW BRUNSWICK AND PRINCE EDWARD ISLAND RAILWAY	
0.00	Sackville, junction with Intercolonial Ry., 147.80 miles from Halifax	
2.15	Middle Sackville station	24.3
3.38	Upper Sackville station	22.4
7.50	Midgie station	33.4
9.42	Summit, ground and rail	83.1
11.80	Brooklyn station	125.8
17.70	Baie Verte station	80.1
17.95	Rivière Verte, bed, 0; rail	6.8
19.86	Gaspereau river, bed, 0; rail	5.8
20.00	Port Elgin station	12.7
23.90	Hardy station	11.8
27.20	Melrose station	41.1
30.56	Malden station	99.5
32.20	Lane station	72.9
35.45	Cape Tormentine station	79.4
	wharf	16.4
	Strait of Northumberland, high water, neap tide, 2.5; spring tide	6.9
		4.5

Miles from
PainsecINTERCOLONIAL RAILWAY—POINTE DU CHENE
BRANCHElevation
above mean
sea level

0.00	Painsec , junction with main line, 178.61 miles from Halifax.....	148.4
5.68	Scadouc station.....	101.7
9.65	Shediac station.....	46.8
11.53	Pointe du Chêne station.....	10.1
11.85	" " " wharf, high water, 3; low water, —3; rail.....	4.5

INTERCOLONIAL RAILWAY—ST. JOHN BRANCH

Miles from
Moncton

0.00	Moncton , junction with main line 186.00 miles from Halifax.....	50.0
5.87	Summit.....	111
6.58	Jones station.....	105.1
8.16	Depression.....	34
10.22	Boundary Creek station.....	80.7
13.38	Salisbury, junction with Salisbury and Albert railway.....	102.5
15.51	North River road crossing.....	96.4
18.10	River Glade station.....	81.7
19.07	Petitcodiac river, water, 59; rail.....	79.8
21.37	Summit.....	117
22.92	Petitcodiac, junction with Elgin and Havelock Ry.....	96.2
28.50	Anagance station.....	160.1
29.00	Summit.....	176.4
32.88	McLeod station.....	140.7
33.97	Summit.....	170
34.46	Dunsinane station.....	155.5
38.07	Penobsquis station.....	91.8
38.88	Salmon river, bed, 69; rail.....	84
42.37	Plumweseep station.....	66.9
43.34	Penobsquis river, bed, 47; rail.....	68.5
45.35	Trout brook, bed, 64; rail.....	73.3
45.56	Sussex station.....	69.2
50.04	Apohaqui station.....	73.1
52.46	Secord siding.....	56.3
56.58	Norton, junction with Canadian Pacific Ry. (Central Ry. of New Brunswick, Northern division).....	51.2
58.73	Moosehorn brook, bed, 18; rail.....	37.4
61.56	Bloomfield station.....	35.0
63.07	Passekeag station.....	35.1
65.05	Summit.....	75
66.60	Kennebecasis river, water (May 21, 1912), 10; rail.....	21.7
67.28	Hampton, junction with Central Ry. of New Brunswick, Southern division.....	26.7
68.60	Lakeside station.....	29.1
72.56	Nauwigewauk station.....	18.8
72.74	Hammond river, water (May 23, 1912), 10; rail.....	28.4
73.51	Jubilee station.....	34.2
75.52	Model Farm station.....	130.0
76.96	Summit.....	176.0
77.28	Quispamsis station.....	154.0
79.35	Fairvale station.....	54
80.52	Rothesay station.....	23.0
81.98	Riverside station.....	20.1
	Kennebecasis bay, high water.....	6
82.89	Renforth station.....	40.4
83.17	Torryburn station (summit).....	68.8
84.99	Brookville station.....	29.3

CANADIAN GOVERNMENT RAILWAYS

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Miles from
Moncton

INTERCOLONIAL RAILWAY—ST. JOHN BRANCH

Elevation
above mean
sea level

86.26	Coldbrook station.....	12.8
87.98	Island Yard station.....	14.1
89.31	St. John station.....	21.4
	Intercolonial wharf, outer end.....	15.6

INTERCOLONIAL RAILWAY—FREDERICTON
BRANCHMiles from
Fredericton

0.0	Fredericton station.....	85
0.3	St. John river, high water, 12; extreme high water, 28; extreme low water, 4; rail, centre of draw span.....	35
0.5	Gibson, junction with Canadian Pacific railway, Gibson branch.....	30
1.5	Marysville junction, with Fredericton and Grand Lake railway.....	33
2.8	Marysville station.....	52
4.0	Nashwaak river, bed, 18; rail.....	43
5.5	Summit, ground, 91; rail.....	78
7.5	Penniac station.....	63
7.6	Penniac stream, bed, 20; rail.....	59
10.4	Manzer station.....	66
12.5	Nashwaak station.....	79
14.5	Durham station.....	86
14.7	Sloat brook, bed, 51; rail.....	69
16.8	McBean brook, bed, 82; rail.....	98
18.6	Taymouth station.....	134
22.3	McCallum brook, bed, 125; rail.....	143
22.8	Covered Bridge station.....	161
25.2	Cross Creek station.....	208
25.3	Cross creek, water, 177; rail.....	196
29.5	Cross creek, bed, 307; rail.....	317
29.9	Upper Cross Creek station.....	326
33.6	Summit.....	568
36.2	McGivney, junction with Grand Trunk Pacific (National Trans-continental) Ry.....	571.7
37.6	Clearwater station.....	487
38.7	Clearwater brook, bed, 435; rail.....	449
41.8	Astle station.....	481
42.3	Summit.....	534
47.2	Boiestown station.....	212
47.5	Burnt-land brook, bed, 154; rail.....	193
51.4	Ludlow station.....	151
54.3	McNamee station.....	133
57.2	Carroll station.....	200
60.5	Stream (crosses near mouth), bed, 84; rail.....	102
63.3	Doaktown station.....	101
64.0	Southwest Miramichi river, water, 72; bed, 63; rail.....	89
67.5	Blissville station.....	226
69.7	Summit, ground, 342; rail.....	340
78.2	Upper Blackville station.....	211
84.3	Moore brook, bed, 21; rail.....	40
87.6	Blackville, junction with Indiantown branch.....	68
107.4	Chatham junction, with main line, 258.03 miles from Halifax.....	129.6
112.9	Nelson station.....	56.1
119.1	Chatham station.....	99.6
124.1	Loggieville station.....	32.8

Miles from Derby	INTERCOLONIAL RAILWAY—INDIANTOWN BRANCH	Elevation above mean sea level
0-00	Derby, junction with main line, 260-54 miles from Halifax...	34-9
3-40	Fitzgerald brook, high water, 6; rail.....	28
4-29	Millerton station.....	25
5-30	Wilson brook, high water, 6; rail.....	25
9-20	Summit, rail and ground.....	129
11-00	Elm-tree brook, bed, 51; rail.....	68
13-51	Indiantown station.....	32
13-52	Indiantown brook, water, 15; rail.....	34
14-71	Renous river, high water, 41; low water, 26; rail.....	60
18-01	Summit (at post road crossing).....	185
21-51	Bartholomew river, water, 47; rail.....	61
22-01	Blackville, junction with Fredericton branch, 87-6 miles from Fredericton.....	68
Miles from Dalhousie Junction	INTERCOLONIAL RAILWAY—DALHOUSIE BRANCH	
0-00	Dalhousie junction, with main line, 362-17 miles from Halifax...	81-7
2-86	Summit, rail.....	235-3
3-84	McNeil station.....	160-4
6-15	Dalhousie station.....	15-1
	" wharf, east end.....	7-0
Miles from Campbellton	INTERCOLONIAL RAILWAY—INTERNATIONAL RAILWAY	
0	Campbellton, junction with Intercolonial railway, main line, 371-02 miles from Halifax.....	42
7	Christopher brook, rail.....	118
8	Glencoe station.....	180
13	Rocky Gulch station.....	339
14	Summit station.....	416
16	Meadow Brook station.....	291
20	Upsalquitch station.....	159
23	Shives station.....	242
27	Miller station.....	378
36	Grog Brook station.....	848
41	Falls Brook station.....	1,014
46	Adams station.....	1,204
50	White Brook station.....	977
51	Red Bank station.....	947
57	Richards station.....	905
64	Ross station.....	967
68	Five Fingers bridge, rail.....	826
70	Anderson station.....	886
72	Hazen station.....	906
77	Jardine brook, rail.....	704
80	Hammond station.....	856
86	Black Brook station.....	731
96	Grand River station.....	617
102	Flemming station.....	564
112	St. Leonard station.....	509

CANADIAN GOVERNMENT RAILWAYS

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Miles from St. Charles	INTERCOLONIAL RAILWAY—CHAUDIERE BRANCH	Elevation above mean sea level
0-00	St. Charles, junction with main line, 660-42 miles from Halifax	296-2
3-00	Summit, rail	331
7-79	Carrier, junction with Quebec Central Railway	300
10-38	River Etchemin, water, 203; rail	255
12-86	St. Jean Chrysostôme station	217
16-38	Chaudière junction, with main line, 682-58 miles from Halifax	235-1

Miles from St. Leonard	INTERCOLONIAL RAILWAY—NICOLET BRANCH	
0-00	St. Leonard, junction with main line, 753-90 miles from Halifax	243
0-37	St. Leonard station	237
3-80	Summit	252
8-36	Ste. Monique station	162
11-70	St. Guillaume road crossing	125
14-50	Quebec, Montreal and Southern Ry. crossing	76-2
14-76	Nicolet station	74
17-35	" wharf at Balls mills, water, St. Lawrence river (Dec. 1888), 15; rail	27

Miles from Harvey	INTERCOLONIAL RAILWAY—"SHORT LINE" (Projected)	
0-00	Harvey station, Canadian Pacific Ry., "Short Line," 65-0 miles from St. John	490
3-50	Moodie road, ground	514
4-30	Lyon brook, bed, 500; grade	514
7-02	Hunter road, ground	437
10-72	Longs brook, water, 333; grade	351
15-75	Rusiagornis brook, bed, 353; grade	362
18-13	Howie road, ground	423
19-94	Murray canal, bed, 339; grade	347
26-80	St. John river at Fredericton, extreme high water, 23; extreme low water	4
32-70	Portobello brook, bed, 64; grade	100
34-86	Summit, ground, 178; grade	174
37-33	Bartlett Mill stream, bed, 106; grade	121
40-60	Summit, ground, 209; grade	201
42-05	Burpee brook, bed, 118; grade	167
45-70	Summit, ground	266
50-78	Little river, bed, 49; grade	74
55-40	Summit, ground	201
56-80	Newcastle brook, high water, 47; low water, 46; grade	68
60-75	Summit, ground	93
65-85	Salmon river, high water (1887), 22; ordinary high water, 15; low water (July 27, 1889), 3; grade	31
70-00	Coal creek, high water (1887), 22; water (Dec., 1889), 5; grade	17
74-80	Summit, ground	231
75-52	Cumberland Bay brook, bed, 197; grade	211
76-90	Summit, ground	200
83-45	North branch Canaan river, high water, 70; low water, 62; grade	97
86-80	Summit, ground, 160; grade	148
89-86	Alward brook, bed, 40; grade	52
94-15	Canaan river, high water (1854), 69; low water, 58; grade	75
99-25	Summit, ground	243
99-46	Junction with line to Salisbury, grade	227

Miles from
HarveyINTERCOLONIAL RAILWAY—"SHORT LINE"
(Projected)Elevation
above mean
sea level

103.50	Summit, ground, 365; grade.....	362
110.06	North river, high water, 206; low water, 195; grade.....	222
113.00	Summit, ground, 312; grade.....	300
114.73	Berrys Mills station, Intercolonial Ry., main line, 193.41 miles from Halifax.....	216.3

Alternate line to Salisbury

99.46	Junction with line to Berrys Mills, grade.....	227
102.40	Summit, ground, 288; grade.....	282
105.75	North river, extreme high water (1854), 156; low water 148; grade.....	159
107.80	Summit, ground, 260; grade.....	252
110.70	Salisbury station, Intercolonial Ry., St. John branch.....	102.5

Miles from
R. Trois
PistolesINTERCOLONIAL RAILWAY—CENTRAL ROUTE
(Exploratory Survey)

0.0	East bank of Rivière Trois Pistoles, 8 miles south of Trois Pistoles station on Intercolonial Ry., ground.....	511
2.4	Road at St. Jean de Dieu P. O., ground.....	505
3.0	Baibauscache river, near St. Jean de Dieu P. O., bed, 486; grade.....	511
10.4	Baibauscache river, 2nd crossing, bed.....	641
11.7	Summit between Baibauscache river and Island lake, ground.....	711
13.0	Island lake, water.....	667
22.7	Eagle lake, water.....	534
23.5	Wagan brook, 1st crossing, bed.....	538
25.8	Wagan brook, 2nd crossing, bed.....	559
27.0	Wagan lake, water.....	568
29.8	Divide between Wagan and Touradif rivers.....	588
30.0	Upper Touradif lake, water.....	573
32.0	Lower Touradif lake, water.....	563
33.7	Touradif river, bed.....	552
37.9	Snellier river, 1st crossing, bed.....	563
39.7	Snellier river, 2nd crossing, bed.....	675
44.0	Snellier river, 3rd crossing, bed.....	764
44.4	Divide between Snellier river and Tracy brook, ground.....	795
46.0	Rivière d'Embarras, bed.....	763
49.9	North branch Touradif river, bed.....	983
50.5	Echo lake, water.....	985
56.0	Summit lake, water, 1,351; summit of ground.....	1,365
57.2	Porcupine lake, water.....	1,337
63.7	Rimouski river, bed.....	1,388
65.0	Interprovincial boundary, New Brunswick and Quebec, ground.....	1,456
66.6	Lake Tiarks, water.....	1,517
66.9	Divide between Rimouski and Green rivers, ground.....	1,535
70.6	Green River lake (1st lake), water.....	1,362
73.4	Branch of Green river, bed.....	1,290
79.7	Northwest branch Green river, bed.....	1,105
82.8	Northeast branch Green river, 1½ miles below mouth of Otter brook, bed.....	1,141
84.3	Northeast branch Green river, bed.....	1,192
87.8	Northeast branch Green river, bed.....	1,370
89.6	Divide between Green and Guanamitz rivers, ground.....	1,533
99.0	North branch Guanamitz river, bed.....	823
103.9	Guanamitz river, 1st crossing, bed, 705; grade.....	719
108.2	Guanamitz river, 2nd crossing (at 1st fall), bed, 595; grade.....	612

Miles from
R.Trois PistolesINTERCOLONIAL RAILWAY—CENTRAL ROUTE
(Exploratory Survey)Elevation
above mean
sea level

111.8	Guanamitz river, 3rd crossing, $\frac{1}{2}$ mile below Halfway lodge, bed.	527
113.9	Guanamitz river, 4th crossing, bed.	479
115.1	Restigouche river, one mile below junction with Guanamitz river, high water, 471; low water.	465
120.7	Divide between Boston and Jardine brooks, bed.	832
125.8	Grand river, water.	744
127.6	Gull lake, water.	795
132.4	Divide between Grand and Little rivers, ground.	1,105
133.5	Little river, bed, 1,043; grade.	1,061
134.2	Divide between Little and Salmon rivers, ground.	1,068
137.9	North branch Salmon river, water.	863
138.8	Divide between North and Middle branches of Salmon river, ground, 950; grade.	935
140.8	Middle branch Salmon river, bed.	796
141.3	Divide between Middle branch and Cedar brook, ground.	846
142.1	Cedar brook, bed, 786; grade.	805
145.0	Divide between Salmon and Tobique waters, ground.	865
150.0	Two brooks, 1st crossing, bed.	623
152.6	Two brooks, 2nd crossing, near confluence with Tobique river, bed	494
155.7	Tobique river (Dow flat), bed.	443
160.5	Tobique river, $\frac{1}{2}$ mile above mouth of Little Gulquac river, water 419; bed, 415; grade.	449
165.7	Divide between Little Gulquac and Little Wapskehegan, ground.	711
166.7	Little Wapskehegan river, bed, 598; grade.	651
171.3	Divide between Little Wapskehegan and Wapskehegan rivers, ground.	803
171.6	Wapskehegan river, bed, 663; grade.	808
176.7	Divide between Oven-rock and Frank brooks (Tobique and Mir- amichi waters), ground, 1,206; grade.	1,195
180.2	North branch Miramichi river, small lake, water.	1,100
182.2	North branch Main Southwest Miramichi river, 1st crossing, near Carleton and Victoria county-line, bed, 1,031; grade.	1,060
183.8	North branch Main Southwest Miramichi river, 2nd crossing, bed.	977
191.7	Peters brook, bed.	852
197.7	South branch Southwest Miramichi river at mouth of Turtleshell brook, water, 808; grade.	825
200.3	Divide between Southwest Miramichi and Nashwaak rivers (Nash- waak summit), ground.	983
204.5	Southwest branch Nashwaak river, bed, 909; grade.	920
209.2	Big brook, bed.	857
211.3	Nashwaak river at mouth of Sister Anne brook, bed, 826; grade.	841
214.3	Divide between Nashwaak and Keswick rivers (Keswick summit, ground.	1,040
215.5	Grade opposite Becaguimec Lake.	932
221.0	Bank of Keswick river, ground.	567
224.0	Keswick river, 1st crossing, bed.	378
224.4	Keswick river, 2nd crossing, bed.	362
228.1	Northeast branch Keswick river, bed.	261
232.6	Keswick river, bed.	119
233.7	Little fork Keswick river (near Stoneridge station), bed.	111
236.3	Road crossing, near Zealand station on Canadian Pacific Ry.	81
236.5	Keswick river, bed.	74
237.2	Keswick river, bed.	51
230.5	Jones Forks, ground.	48
243-248.6	Level, grade.	44
252.0	Nashwaaksis river, bed, 22; grade.	40
255.8	Nashwaak river, bed, 11; grade.	34

Miles from
R.Trois Pistoles

INTERCOLONIAL RAILWAY—CENTRAL ROUTE

Elevation
above mean
sea level

254-259	Level, grade.....	34
259-2	York and Sunbury county-line, ground.....	52
266-1	Nooanan brook at Fredericton and Newcastle road bridge, bed..	144
270-2	Burpee brook at Fredericton and Newcastle road bridge, bed....	131
275-0	Summit between Burpee brook and Little river, ground.....	190
270-7	Little river, bed, 25; grade.....	69
285-3	Summit between Little and Newcastle rivers, ground.....	215
288-8	Newcastle river, bed, 15; grade.....	57
295-5	Ironbound cove (Salmon river), grade.....	26
299-0	Salmon river (tidewater), grade.....	30
301-5	Divide between Salmon river and Coal brook, ground.....	171
304-3	Coal brook, bed, 19; grade.....	89
306-7	Summit between Coal and Cumberland brooks, ground.....	243
308-3	Middle branch Cumberland brook, bed, 144; grade.....	163
309-5	South branch Cumberland brook, bed, 168; grade.....	183
311-9	Summit between Cumberland brook and Canaan river, ground..	223
315-4	Watt brook, bed, 62; grade.....	95
316-8	Canaan river, bed, 20; grade.....	83
321-1	Summit, ground, 354; grade.....	328
322-7	North branch Longs brook, bed, 236; grade.....	263
327-4	Summit between Canaan and Kennebecasis rivers, ground, 468; grade.....	438
337-2	Kennebecasis river, bed, 42; grade.....	69
337-5	Apohaqui station, St. John branch, Intercolonial Ry.	73-4

INTERCOLONIAL RAILWAY

Miles from
Miramichi
Lake

Major Robinson's survey

0-0	Miramichi lake.....	750
11-0	Forks of Southwest Miramichi river.....	797
18-0	Portage road.....	829
22-0	Bedel Brook hill.....	1,084
24-0	Northwest branch Southwest Miramichi river.....	926
30-0	Height-of-land between Miramichi and Tobique rivers.....	1,205
30-5	Source of Odell river.....	1,215
31-0	Watershed between Odell and Wapskehegan rivers.....	1,238
54-0	Junction with Tobique line, by Miramichi Lake levels.....	1,195
	" " " " by Tobique River levels.....	1,189
	" " " " by barometric observations (1847).....	1,168
56-3	Beaver brook.....	849
60-3	Ovenrock brook.....	810
62-0	Rivière des Chutes.....	630
66-0	Little Wapskehegan river.....	585
72-0	Tobique river.....	420
80-0	Branch of Two Brooks river.....	616
83-5	Summit.....	935
87-0	Cedar brook.....	776
91-0	Sisson brook.....	844
95-0	Summit between Sisson brook and Salmon river.....	1,177
96-7	Salmon river.....	920
100-5	Summit between Salmon and Grand rivers.....	1,115
117-0	Restigouche river.....	435

Miles from Tignish	PRINCE EDWARD ISLAND RAILWAY—MAIN LINE	Elevation above mean sea level
0.0	Tignish station.....	
2.3	Harper station.....	62
4.6	De Blois station.....	67
6.3	Summit, rail.....	124
6.9	St. Louis station.....	168
9.1	Alma station.....	142
13.3	Alberton station.....	142
14.6	Alberton wharf.....	24
16.9	Elmsdale station.....	5.5
19.4	Summit.....	124
22.3	Bloomfield station.....	155
26.2	Howlan station.....	130
26.7	Summit.....	55
28.0	O'Leary station.....	111
31.3	Coleman station.....	99
36.2	Depression.....	67
36.9	Portage station.....	15
40.2	Conway station.....	37
40.9	Summit.....	73
44.6	Ellerslie station.....	75
46.2	Port Hill station.....	58
46.4	Summit.....	99
48.8	Northam station.....	103
50.6	Summit.....	74
51.7	Richmond station.....	132
56.3	Wellington station.....	75
57.5	Depression.....	10*
59.2	St. Nicholas station.....	10
62.9	Miscouche station.....	53
66.3	St. Eleanor station.....	85
68.0	Summerside wharf.....	80
70.0	Summit.....	8
71.0	Travellers Rest station.....	90
72.3	New Annan station.....	36
74.3	Clermont station.....	50
76.3	Kensington station.....	30
77.4	Summit.....	110
78.4	Kelvin station.....	171
80.0	Depression.....	124
81.7	Freetown station.....	55
82.0	Depression.....	102
85.3	Emerald, junction with Cape Traverse branch.....	85
87.6	Breadalbane station.....	123
89.6	Elliott station.....	135
91.7	Summit.....	181
91.8	Fredericton station.....	307
93.8	Clyde station.....	306
96.3	Hunter River station.....	202
100.0	North Wiltshire station (summit).....	86
103.5	Colville station.....	311
106.0	Loyalist station.....	179
107.1	Milton station.....	48
110.8	Winsloe station.....	25
		144

*The elevation given on the railway profile—64 feet—is obviously in error. Barometric measurements by Dr. R. Chalmers gave an elevation of only 10 feet.

Miles from Tignish	PRINCE EDWARD ISLAND RAILWAY—MAIN LINE	Elevation above mean sea level
111.9	Royalty junction.....	166
113.2	Sherwood station.....	127
117.1	Charlottetown station.....	8
117.2	" wharf.....	8.2
112.3	Summit.....	181
112.6	Brackley Point station.....	159
114.0	Union station.....	118
115.7	York station.....	138
118.1	Suffolk station.....	156
119.0	Summit.....	173
120.4	Bedford station.....	92
121.0	Summit.....	100
123.3	Tracadie station.....	61
128.7	Mount Stewart, junction with Georgetown branch.....	24
129.9	St. Andrews station.....	15
131.7	Douglas station.....	88
134.2	Dundee station (summit).....	108
136.6	Lot 40 station.....	51
138.1	Morell station.....	39
141.6	Marie station.....	23
145.3	St. Peter station.....	15
147.4	Five Houses station.....	125
149.0	Ashton station.....	143
152.3	Selkirk station.....	101
152.8	Depression.....	72
154.5	St. Charles station.....	134
156.7	Bear River station.....	219
156.9	Summit.....	228
159.1	New Zealand station.....	183
161.7	Harmony station.....	161
166.7	Souris station.....	15
167.3	" wharf.....	7
PRINCE EDWARD ISLAND RAILWAY—CAPE TRAVERSE BRANCH		
Miles from Cape Traverse		
0.0	Cape Traverse station.....	11
1.8	Tanks station (closed).....	24
4.2	Albany station.....	127
7.7	Kinkora station.....	141
11.8	Emerald, junction with main line, 85.3 miles from Tignish.....	123
PRINCE EDWARD ISLAND RAILWAY—GEORGETOWN BRANCH		
Miles from Mt. Stewart		
0.0	Mount Stewart, junction with main line, 128.7 miles from Tignish.....	24
2.6	Pisquid station.....	59
7.2	Peake station.....	110
9.2	St. Teresa station.....	189
9.3	Summit.....	195
13.7	Perth station.....	136
18.1	Cardigan station.....	70
21.0	Brudenell station.....	65
24.1	Georgetown station.....	26
24.5	" wharf.....	6

CANADIAN GOVERNMENT RAILWAYS

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Miles from Charlottetown	PRINCE EDWARD ISLAND RAILWAY— MURRAY HARBOUR BRANCH	Elevation above mean sea level
0.0	Charlottetown station	8
	" ordinary low water, spring tide, -5.7; ordinary high water, spring tide, 5.7; extreme high tide (1904)	7.8
1.6	Southport station	23
3.7	Bunbury station	15
5.1	Mount Herbert station	23
7.4	Hazelbrook station	139
8.9	Mount Albion station	67
11.1	Village Green station	145
13.3	Lake Verde station	103
15.3	Millview (loop) station	74
17.0	Vernon station	18
15.3	Hermitage station	102
16.6	Vernon River station	75
18.6	Glencoe station	109
20.3	Cigg station	68
23.0	Grandview station	227
25.8	Fodhla station	261
27.8	Surrey station	273
31.7	Melville station	83
33.9	Belle River station	46
36.3	Wood Island station	70
37.9	Iris station	88
39.9	Hopefield station	63
43.7	Murray River station	37
45.5	Wilnot station	48
47.8	Murray Harbour station	20

Miles from
Sand PointNOVA SCOTIA SOUTHERN RAILWAY
(Projected)Elevation
above mean
sea level

0.0	Sand Point, grade.....	16
4.5	Shelburne, Clement St., grade.....	69
8.0	Purney brook, water, 50; grade.....	54
9.0	Summit (wood road crossing), ground, 114; grade.....	105
10.2	Jordan river, water, 17; grade.....	25
17.0	Summit.....	262
18.9	Sable river, water, 176; grade.....	185
21.4	'Cooper Trap,' water, 214; grade.....	222
24.2	Tom Tidney river, bed, 245; grade.....	249
30.6	Broad river, water, 291; grade.....	295
36.4	Summit, ground and grade.....	350
38.0	Liverpool river ('Indian gardens'), high water, 256; low water, 254; grade.....	270
42.7	Burnaby brook, bed, 271; grade.....	276
45.0	Sixteen-mile brook, water, 276; grade.....	279
50.4	Martin Lake brook, water, 247; grade.....	254
54.6	Caledonia, post road.....	308
56.8	Medway river, water, 254; grade.....	265
57.2	South Brookfield village.....	263
62.0	Summit, ground, 342; grade.....	335
63.3	New Elm road.....	295
63.8	Pleasant river, water, 285; grade.....	292
66.2	Kiddy brook, bed, 341; grade.....	346
67.8	Lake road.....	369
68.6	Summit, ground, 403; grade.....	383
71.3	Hemford, public road.....	330
73.4	Springfield road.....	307
74.2	New Canada road.....	276
75.0	New Germany, near Halifax and Southwestern Ry. station.....	255

DOMINION ATLANTIC RAILWAY

See pages 19 to 21

HALIFAX AND SOUTHWESTERN RAILWAY

See pages 201 to 203

NOVA SCOTIA EASTERN RAILWAY—MAIR LINE
(Projected)Miles from
New Glasgow

0.0	New Glasgow, junction with Intercolonial Ry., Mungave branch, 42.57 miles from Truro.....	32
2.4	Thorburn Road crossing.....	135
4.4	Junction with Vale Colliery Ry.....	163
7.6	McLean brook, water, approx., 115; grade.....	165
10.7	Sutherland river, water, approx., 190; grade.....	260
13.3	French river, water, approx., 348; grade.....	385
18.1	Summit.....	641
18.7	Moose river, bed, 586; grade.....	610
21.9	Brook, bed, 484; grade.....	498
23.8	Moose river, bed, 434; grade.....	439
26.5	Moose river, bed, 379; grade.....	388
31.5	St. Mary river, water, approx., 332; grade.....	378
36.0	Brook, bed, 212; grade.....	233
44.9	East river St. Mary, bed, 85; grade.....	95
46.0	McKeen brook, bed, 89; grade.....	113
51.2	Rocky brook, bed, 197; grade.....	206
52.3	Summit.....	233

NOVA SCOTIA—SUNDRY RAILWAYS

303

Miles from
New GlasgowNOVA SCOTIA EASTERN RAILWAY
(Projected)Elevation
above mean
sea level

56.1	Country Harbour river, water, approx., 61; grade	71
58.3	Gunn brook, bed, 155; grade	167
60.7	Gunn brook, bed, 336; grade	350
62.5	Summit	412
64.0	Brook, bed, 363; grade	375
65.7	Three-island lake, bed, 362; grade	378
67.3	Salmon river, water, approx., 310; grade	325
68.3	Salmon river, bed, 273; grade	297
70.8	Salmon river, bed, 173; grade	189
74.0	Salmon river, bed, 153; grade	150
75.6	Salmon river, bed, 130; grade	139
82.3	Guysboro, station ground	68

Miles from
Junc. with main
lineNOVA SCOTIA EASTERN RAILWAY—COUNTRY
HARBOUR BRANCH
(Projected)

0.0	Junction with New Glasgow-Guysboro line	151
3.8	Country Harbour river, water, 132; grade	151
6.8	Depression	145
7.8	Summit	183
9.2	Stewart brook, water, approx., 145; grade	160
12.1	Country Harbour station ground	160

Miles from
St. Peters

CAPE BRETON RAILWAY

0.0	St. Peters station	66
6.0	Sporting Mountain station	111
12.0	Grande Anse station	38
16.3	Whiteside station	135
19.0	Basin Road station (summit)	147
21.0	Evanston station	24
23.0	Chapel Road station	98
31.0	Point Tupper, junction with Intercolonial Ry., Cape Breton branch	9

INVERNESS AND RICHMOND RAILWAY
See page 203Miles from
Sydney

SYDNEY AND LOUISBURG RAILWAY

0.0	Sydney, shipping pier	42
	Sydney, junction with Intercolonial Ry., Cape Breton branch, 90.90 miles from Pt. Tupper	7
4.0	Grand Lake station	104
6.6	Old Tank station	77
8.6	Gardiner station	77
10.0	Dominion station	74
12.0	Bridgeport station	72
13.8	Glace Bay station	72
20.3	Morien junction	124
21.5	Coal washplant	60
24.5	Homeville station	74
28.0	Mira station	12
31.8	Catalone station	5
37.8	Louisburg, shipping pier, 42; station	54

Miles from
Sydney

SYDNEY AND LOUISBURG RAILWAY

Elevation
above mean
sea level*Spur lines*

Rea station, 0 miles from Dominion station	172
Libby station, 0.8 mile from main line	120
Union station, 0.75 mile from main line	83
Morion station, 0.0 mile from Morion junction	164

Miles from
Sydney*Trial line, abandoned*

0.0	Sydney station, grad	27
4.3	Summit, 178 ft	131
5.8	Dorchester station	124
7.3	Summit, 202 ft	202
9.2	River station	141
10.2	Schooner Point	104
11.6	Summit, ground and grade	146
13.2	Glace Bay road	97
14.1	Cow Bay road	73
17.1	Black brook, bed, 20; grade	37
18.9	Mira station	20
21.7	Summit, ground, 118; grade	111
23.6	Catalone lake, grade	6
26.6	Summit, ground and grade	135
31.2	Louisburg, grade	28

CHIGNECTO MARINE TRANSPORT RAILWAY
(Abandoned)Miles from
Tidnish

0.0	Tidnish dock, extreme high tide, 7.82; ordinary high tide, 2.82; average low water	-2.82
1.0	Natural surface of ground, 65.7; grade	29.8
6.0	" " 16.0 "	22.2
10.0	" " 24.1 "	27.2
13.5	" " 42.7 " (summit)	43.9
14.0	" " 22.3 "	26.8
17.0	Fort Lawrence dock, high water spring tide, 24.8; neap tide, 14.8; ordinary low water	18.6
	Bay of Fundy, highest tide recorded (Saxby tide, Oct. 5, 1869, range, 57.64; high water, Saxby tide, at flood	28.82

Miles from
Maccan

MARITIME COAL, RAILWAY AND POWER CO.

0.00	Maccan, junction with Intercolonial railway, 130.02 miles from Halifax	31.1
0.34	Maccan river, bed, 7; high water, 28; low water, 24; rail	34
3.20	Summit, ground, 218; rail	216
7.00	River Hebert, extraordinary high water (Oct. 18, 1887), 21; high water, 18; low water, 3; rail	27
7.15	River Hebert station	29
10.20	Summit	191
11.60	Joggins station	58

NOVA SCOTIA—SUNDRY RAILWAYS

305

Miles from
Parrsboro

CUMBERLAND RAILWAY AND COAL CO.

Elevation
above mean
sea level

0.0	Parrsboro wharf....	20.0
5.6	" station....	24.7
9.3	Lakelands station....	87.1
12.2	Newville station....	69.1
15.0	Westbrook station....	112.4
16.0	Southampton station....	116.3
17.7	Lawrence brook, rail....	110.5
17.9	Maccan river, rail....	141.6
19.7	East Southampton station....	140.3
23.1	Etter Road crossing....	171.8
23.8	Mountain Road crossing....	327.3
26.2	Athol Road crossing....	373.1
30.2	Springhill station....	434.1
	Springhill junction, with Intercolonial railway, 120.91 miles from Halifax.....	198.6

NEW BRUNSWICK AND PRINCE EDWARD ISLAND
RAILWAY
See page 291Miles from
Salisbury

SALISBURY AND ALBERT RAILWAY

0.0	Salisbury, junction with Intercolonial railway, St. John branch, 13.38 miles from Moncton.....	102.5
17.0	Stoney Creek station.....	238
20.0	Salem station.....	116
22.0	Weldon station.....	28
24.4	Hillsborough station.....	42
28.8	Albert Mines station.....	238

Miles from
Harvey Br. Jct.

ALBERT SOUTHERN RAILWAY*

0.0	Harvey Branch junction, about.....	8
2.4	Germantown road crossing, about.....	6
8.9	Turner mills, road crossing....	116
11.7	Summit, ground, 438; rail.....	424
14.0	Cleveland mill.....	227
14.7	Kenney mill.....	163
15.2	Foster mill.....	120
16.2	Alma station.....	24

Miles from
Havelock

ELGIN AND HAVELOCK RAILWAY

0.0	Havelock station.....	288
2.4	Steeves Settlement station.....	381
4.5	Killam Mill station.....	263
6.0	Wheaton Mill station....	219
7.3	Fawcett Mill station....	143
9.4	North river, water, 101; rail....	119
9.5	Intervale station.....	121
12.2	Petitcodiac river, water, 79; rail.....	55
12.5	Petitcodiac, junction with Intercolonial Ry., St. John branch....	96.2
39.5	Elgin station.....	359

*Elevations are approximate only.

Miles from
Moncton

BUCTOUCHE AND MONCTON RAILWAY

Elevation
above mean
sea level

	Moncton wharf	29
0.0	" station.....	30
0.9	Humphrey brook, bed, 15; rail.....	31
1.8	Intercolonial railway, main line, crossing, 183.50 miles from Halifax.....	69.0
3.9	Moncton waterworks reservoir, bed, 141; rail.....	161
7.0	Summit, ground, 256; rail.....	255
7.5	Irishtown station.....	237
10.0	Cape Breton station.....	129
10.2	Shediac river, bed, 97; rail.....	130
11.8	Scotch Settlement station.....	120
14.0	McDougall brook, bed, 119; rail.....	147
15.0	McDougall station.....	195
15.5	Summit, ground and rail.....	209
18.2	Notre Dame station.....	80
18.7	Cocagne station.....	62
18.9	Cocagne river, water, 21; bed, 10; rail.....	60
21.3	Meadow brook, bed, 99; rail.....	116
23.2	St. Anthony station (summit), ground, 189; rail.....	187
27.5	Little River station.....	63
27.7	Little Buctouche river (tidewater), rail.....	46
31.0	Buctouche river, high water, 2; rail.....	24
31.4	Buctouche station.....	17
31.8	" wharf.....	12

CENTRAL RAILWAY OF NEW BRUNSWICK

See pages 25 to 26

CANADA EASTERN RAILWAY

See Intercolonial Railway, Fredericton Branch, page 293

Miles from
Newcastle
Bridge

FREDERICTON AND GRAND LAKE RAILWAY*

0	Newcastle Bridge (formerly Newcastle), junction with the Central railway of New Brunswick, 56.8 miles from Norton.....	54
1	Minto station.....	159
4	Scale station.....	201
8	Albrite station.....	199
10	Bailey station.....	99
11	Coburn station.....	93
12	Ripples station.....	80
13	Lakorn station.....	43
18	Colter station.....	76
22	Glenie station.....	78
25	Scott station.....	49
29	Barker station.....	22
34	Marysville junction, with Intercolonial railway, Fredericton branch.....	33
35	Gibson station.....	30
36	St. John river, high water, 12; extreme high water, 28; extreme low water, 4; rail, centre of draw span.....	35
37	Fredericton , junction with Canadian Pacific railway, Fredericton branch and Gibson branch.....	32

*This line is operated as an extension of the Central railway of New Brunswick (see pages 25 and 26).

Miles from
FrederictonST. JOHN AND QUEBEC RAILWAY—NORTH SECTION
(Under Construction)Elevation
above mean
sea level

0.0	Fredericton, Canadian Pacific Ry. station.....	32
4.0	Springhill station.....	42
10.3	Indian Village station.....	41
15.5	Kingsclear station.....	67
16.4	Kelly creek, low water (1912), 21; high water, 37; rail.....	58
17.4	Long creek, low water (1912), 21; high water, 37; rail.....	49
17.5	Long Creek station.....	49
19.0	Garden creek, low water (1912), 34; high water, 47; rail.....	54
24.0	Rosborough station.....	86
29.5	Summit.....	133
32.5	Barony station.....	86
36.5	Pokiok station.....	155
36.6	Pokiok river, low water, 90; rail.....	155
39.8	Allandale station.....	294
40.7	Shogomoc river, low water, 201; high water, 207; rail.....	262
44.8	Temple station.....	196
49.2	Meductic station.....	152
50.1	Fel river, low water (1912), 91; high water, 106; rail.....	126
55.6	Flemming station.....	257
60.5	Canadian Pacific railway crossing, C.P.Ry., rail, 216; St. John and Quebec Ry., rail.....	241
62.0	Woodstock station.....	177
64.6	Meduxnekeag river, high water, 160; rail.....	177
69.0	Belleville station.....	354
73.0	Lindsay station.....	424
73.5	Summit.....	434
77.0	Farmerston station.....	399
80.0	Lakeville station.....	372
86.0	Presqu'île river, low water, 246; high water, 248; rail.....	277
87.0	Centreville station.....	

Miles from
FrederictonST. JOHN AND QUEBEC RAILWAY—SOUTH SECTION
(Under Construction)

0.0	Fredericton, Canadian Pacific Ry. station.....	32
6.0	Lincoln station.....	20
10.8	Oromocto river, high water, 14; rail.....	22
13.6	Oromocto station.....	19
18.0	Burton station.....	83
24.6	Swan creek, low water (1913), 6; high water, 22; rail.....	29
26.0	Upper Gagetown station.....	44
30.8	Heart lake, low water (1913), 6; high water, 21; rail.....	33
33.0	Gagetown station.....	71
41.2	Otnabog lake, low water, 6; high water, 21; rail.....	34

Miles from
WoodstockWOODSTOCK AND CENTREVILLE RAILWAY
(Projected)

0.0	Woodstock, Canadian Pacific Ry. station.....	148.3
5.6	Summit, grade.....	423
9.1	Depression, grade.....	285
12.8	Summit, grade.....	391
16.0	Grade.....	356
20.0	Grade.....	303
21.8	Depression, grade.....	296
25.0	Summit, grade.....	395
26.5	International boundary, grade.....	346

Miles from
Hartland**HARTLAND AND FORESTON RAILWAY**
(Projected)Elevation
above mean
sea level

0.0	Hartland, junction with Canadian Pacific Ry., Edmundston branch	169.1
2.7	Becaguimec river, bed, 204; grade.....	206
7.5	Coldstream river, bed, 333; grade.....	337
10.0	Coldstream river, water, approx., 390; grade.....	392
14.3	Black brook, water, approx., 557; grade.....	591
19.7	Creek, bed, 922; grade.....	935
21.4	Summit.....	1,007
25.7	Foreston station ground.....	939

Miles from
Richibucto**ST. LOUIS AND RICHIBUCTO RAILWAY**

0.0	Richibucto, junction with Kent Northern railway.....	20
4.0	Northwest or Aldouane river, water, 4; rail.....	25
7.0	Palmerston station.....	67

Miles from
Gloucester**CARAQUET RAILWAY**

0.0	Gloucester, junction with Intercolonial railway, main line, 303-03 miles from Halifax.....	108.7
4.0	Bathurst spur, switch.....	70.7
4.8	Bathurst station.....	17.5
8.2	Bass river, bed, 13; rail.....	43.0
8.4	Bass River station.....	50.0
10.2	Salmon Beach station.....	33.8
12.1	Miller brook, bed, 9; rail.....	32.3
14.7	Teague brook, bed, 30; rail.....	51.6
15.3	Janeville station.....	64.7
16.2	Scott brook, bed, 31; rail.....	54.5
17.6	Canoby road crossing.....	97.9
19.0	Clifton station.....	118.9
21.4	Stonehaven station.....	102.1
22.7	New Bandon station (summit).....	146.7
25.8	Big Pokeshaw river, water, 48; bed, 42; rail.....	62.1
26.3	Pokeshaw station.....	63.4
29.6	Grande-Anse station.....	79.5
32.3	St. Joseph station (summit).....	102.2
36.4	Caraquet river, bed, 16; rail.....	45.0
37.1	Burnesville station.....	53.1
42.1	Grande-Anse road crossing.....	49.8
44.4	Upper Caraquet station.....	51.0
45.4	McIntosh brook, high water (Dec 16, 1887), 4; rail.....	17.8
48.6	Caraquet station.....	81.8
52.8	St. Simon river, water, 3; rail.....	15
54.5	St. Simon station.....	30
60.0	Pokemouche, junction with Tracadie branch.....	11
61.0	Inkerman station.....	11
74.0	Tracadie station.....	17
65.0	Shippigan station.....	14
66.3	End of track.....	10

Miles from
Matapedia

QUEBEC ORIENTAL RAILWAY AND
ATLANTIC, QUEBEC AND WESTERN RAILWAY

Elevation
above mean
sea level

0.0	Matapedia, junction with Intercolonial Ry., 383.78 miles from Halifax.....	54.0
4.5	Sellers creek, water (Sept. 26, 1910), 10; rail.....	31.7
9.0	Little river, high water, 11; rail.....	14.1
9.8	Broadlands station.....	34.3
12.7	Cross Point station.....	32.1
13.0	Petite Rivière du Loup, water, 21; rail.....	26.7
16.2	Oak Bay station.....	58.1
22.2	Pointe-à-la-Garde station.....	45.3
26.7	Escuminac station.....	23.4
26.8	Escuminac river (tide water), rail.....	22.8
32.4	Nouvelle West station.....	80
33.1	Nouvelle river, bed, 48; rail.....	64
35.4	Nouvelle station.....	53
40.9	Stewart brook, bed, 26; rail.....	53
44.4	Carleton station.....	57
48.6	Maria Capes station.....	127
51.1	Giroux station.....	25
52.7	Maria station.....	35
57.8	Irishtown station.....	165
60.2	Grand Cascapedia river, bed, -2; rail.....	37
60.5	Cascapedia station.....	48
63.5	Summit, ground, 225; rail.....	212
64.7	Goose Lake station.....	174
67.4	New Richmond station.....	53
68.0	Little Cascapedia river, bed, -3; rail.....	16
71.7	Black Capes station.....	80
73.2	Summit, ground, 144; rail.....	134
75.7	Caplin river, bed, 33; rail.....	51
76.3	Caplin River station.....	54
78.4	Caplin station.....	92
82.0	Ruisseau Blanc, bed, 1; rail.....	55
84.8	Little Bonaventure river, bed, -2; rail.....	46
89.0	Bonaventure station.....	64
89.9	Bonaventure river, bed, -19; rail.....	23
98.1	New Carlisle, junction with Atlantic, Quebec and Western Ry....	9
101.6	Paspebiac station.....	191
105.0	Nouvelle river West, bed, 32; rail.....	48
107.7	Nouvelle river East, bed, 29; rail.....	43
108.9	St. Godfroi station.....	85
114.1	Marcel station.....	180
120.4	Port Daniel station.....	15
121.9	Cap-à-l'Enfer tunnel.....	54
126.4	Gascons station.....	125
135.0	Newport station.....	50
142.0	Chandler station.....	10
146.3	Ste. Adélaïde-de-Paboe station.....	37
152.1	Grand River station.....	64
160.4	Cape Cove station.....	73
164.9	Anse-au-Beaufils, Percé road crossing.....	166
168.6	Summit.....	313
173.5	Corner of the Beach, road crossing.....	58
177.4	Barachois station.....	81
181.1	Chien-Blanc, road crossing.....	169
195.0	Douglastown station.....	15
203.3	Gaspé station.....	9

Miles from
MillstreamQUEBEC ORIENTAL RAILWAY
(Projected extension)Elevation
above mean
sea level

0.0	Millstream, Intercolonial Railway station, 393.58 miles from Halifax	140.8
15.0	Branch of Mill stream	1,100*
17.4	Ground surface	1,206
25.0	Meadow brook	670
28.0	Patapedia river, junction of Meadow brook	430
30.0	Ground surface	450
40.0	Mistigougeche river	1,200
45.0	Ground surface	1,200
48.0	Junction with line via North branch Millstream	1,000
53.0	Kedgwick lake, water	820
57.0	Branch of West branch Rimouski river	1,030
70.0	Pineau brook	1,400*
78.0	North branch Trout brook, grade	1,000
85.0	Petite Rivière des Aigles, Biencourt tp., con. II	700
90.0	Lac des Aigles, Biencourt tp., cons. II and III, water	430
93.0	Rivière St. Jean and boundary of cons. I and II, Biencourt tp.	490
99.0	Lac des Ilets, Raudot tp., cons. III, IV and V, water	570
100.0	Creek, Raudot tp., con. III	580
110.0	Rivière Trois Pistoles, Begon tp., con. III	350
121.0	Isle Verte, Intercolonial Railway station	109.0

Miles from
Millstream

Alternate Line via North branch Millstream

17.5	North branch of Millstream	1,380*
35.0	Creek, 800; ground surface, 3 miles south	615
37.2	Branch of Patapedia river to lake Métis	850
42.5	Patapedia river	565
44.5	Lake, West branch Patapedia river, water	645
52.3	Junction with Southern line	1,000

Miles from
Ste. Flavie

CANADA AND GULF TERMINAL RAILWAY

0.0	Ste. Flavie, junction with Intercolonial railway, main line, 476.11 miles from Halifax	262.6
2.5	Métis river, high water, 206; low, 198; rail	247
10.2	Métis Beach station	150
16.6	Sandy Bay station	122
21.9	Tartigou river, high water, 87; low water, 82; rail	121
26.9	Rivière Blanche, high water, 55; low water, 51; rail	76
26.9	Rivière Blanche station	76
35.9	Matane station	28

Miles from
MataneCANADA AND GULF TERMINAL RAILWAY
(Projected extension)

0.0	Matane station	28
15.0	Confluence of Matane and Little Matane rivers	150
22.5	" " " Tomogadie rivers	265
29.5	" " " Tuagadek rivers	390
34.0	" " " Trout rivers	485
40.0	Matane river	640
45.0	" "	750
50.0	" "	1,080

*Elevations are barometric only

Miles from Matane	CANADA AND GULF TERMINAL RAILWAY (Projected extension)	Elevation above mean sea level
55-61	Divide between Matane river and Miner brook	1,215
55-0	Miner brook, grade	1,165
67-0	" " "	1,040
73-0	" " $\frac{3}{4}$ mile above Washout brook, grade	900
79-0	" " $\frac{1}{4}$ mile below Cruiser brook	730
82-0	Lake branch, Cascapedia river, one mile below Miner brook	675
91-5	Lake branch, Cascapedia river, half mile above Salmon branch	595
95-5	Cascapedia river, at mouth of Berry Mountain brook	575
106-0	Confluence of North and South branches of Berry Mountain brook	640
110-0	Divide between Cascapedia and Little Cascapedia waters	1,320
	Lake St. Anne, headwaters of St. Anne river	1,355
116-5	Summit between lake St. Anne and West branch Little Cascapedia river	1,365
	Lake Three Weeks	1,320
	Lake Lyons	1,780
	Lake Magdalen, headwaters of Magdalen river	1,625
	Magdalen river at forks, 5 miles below lake Magdalen	1,190
124-5	Summit between West and Middle br. Little Cascapedia river	1,975
130-5	Summit between Middle and East br. Little Cascapedia river	1,840
138-0	Summit, lake Magdalen and East br. Little Cascapedia river	1,680
143-5	Summit between East branch Little Cascapedia river and West branch Bonaventure river	1,890
147-0	Summit between West branch Bonaventure river and Lake branch Magdalen river	1,825

Northern Line

150-0	Divide between Lake branch Magdalen river and East branch Bonaventure river	1,735
161-0	Summit	1,935
167-5	Divide between Magdalen waters	1,865
171-5	Divide between Magdalen and York waters	1,740
173-175	York lake	1,620
181-0	York river	1,490
187-5	"	1,310
193-0	"	1,060
200-0	"	895
206-0	"	805
208-5	"	780
214-0	"	60
222-0	"	4
225-0	"	20
229-5	"	200
236-0	"	130
241-0	"	80
246-0	"	30
250-0	York river, at Gaspé, low tide, - 2; high tide	2

Miles from
MataneCANADA AND GULF TERMINAL RAILWAY
(Projected extension—Southern Line)Elevation
above mean
sea level

133	Divide between Lake branch Magdalen river and East branch Bonaventure river (150 miles on the Northern line).....	1,735
137	Bonaventure river, at head of falls, one mile above Bonaventure lake	1,500
	Bonaventure river at forks, half mile above falls.....	1,590
140.5	Divide between East branch Bonaventure river and St. John river	2,035
140.8	St. John river.....	1,885
166	" " at confluence of South branch.....	820
179	" "	455
183	" "	345
188	" "	265
195	Divide between St. John river and End lake.....	390
205	Gaspé basin, opposite Gaspé village.....	0

Miles from
Ste. Luce

NEIGETTE RAILWAY (Under Construction)

0.0	Ste. Luce, junction with Intercolonial railway, main line, 484.22 miles from Halifax	175.8
1.2	Grade.....	308
2.4	4th range road.....	468
3.5	Summit.....	533
4.8	5th range road.....	384
6.4	Neigette river, bed 273; rail.....	287
7.0	6th range road.....	393
7.8	Sault-Neigette station ground	488

Miles from
Riv. du-Loup

TEMISCOUATA RAILWAY

	Rivière-du-Loup, junction with Intercolonial railway, main line, 559.39 miles from Halifax.....	314.9
0.0	Junction switch.....	325
0.5	Rivière du Loup, high water, 309; low water, 302; rail.....	317
3.0	Temiscouata road crossing.....	355
4.7	Green river, high water, 408; rail.....	421
6.7	St. Modeste station.....	547.6
9.8	Riv. des Roches, bed, 735; rail.....	756
15.3	Summit, ground, 900; rail.....	893
15.9	Whitworth station.....	879.2
16.8	St. Francis river, water, 858; bed, 856; rail.....	886
17.2	Taché road crossing, rail.....	908
24.0	Summit, ground, 1,327; rail.....	1,324
26.6	St. Honoré station.....	1,302.0
33.0	Vauban station.....	1,058.0
33.5	Summit, at road crossing, ground 1,072; rail.....	1,067
37.4	St. Louis-de-Ha-Ha station.....	823
40.2	Little river, bed, 640; rail.....	650
42.7	Cabano station.....	563
43.7	Cabano river, bed, 476; rail.....	496
50.4	Notre-Dame-du-Lac station.....	529.9
	Temiscouata lake, ordinary water.....	482
60.3	St. Rose station.....	505.8
64.0	Otterburn station.....	505
69.1	Boundary between Quebec and New Brunswick.....	497
72.9	St. Jacques station.....	478
78.5	Madawaska river, water, 459; rail.....	480
80.9	Edmundston station.....	478.4

Miles from Edmundston	TEMISCOUATA RAILWAY—ST. FRANCIS BRANCH	Elevation above mean sea level
0.0	Edmundston, junction with main line.....	478.4
0.6	Madawaska river, bed, 433; rail.....	474
3.6	Three-mile brook, bed, 461; rail.....	496
6.8	Six-mile brook, bed, 493; rail.....	517
8.1	St. Hilaire station.....	512
10.0	St. Hilaire Church station.....	515
13.5	Baker brook, low water, 474; rail.....	496
13.7	Baker siding.....	496
17.5	Caron brook, bed, 489; rail.....	502
20.3	Clair station.....	544
22.5	Levasseur brook, bed, 501; rail.....	520
25.0	"The Ledges" station.....	536
27.7	Little river, bed, 513; rail.....	528
31.6	Connors station.....	573

QUEBEC CENTRAL RAILWAY
See pages 30 to 32

Miles from Lennoxville	BOSTON AND MAINE RAILROAD	
0.0	Lennoxville, junction with Grand Trunk Ry., 104.2 miles from Montreal.....	498.6
4.1	Capelton station.....	494.3
5.4	Eustis station.....	499
9.5	North Hatley station.....	537.2
15.8	Massawippi station.....	537.6
18.2	Ayers Cliff station.....	558.5
24.2	Boynton station.....	561.9
27.4	Smiths Mills station.....	622.2
31.0	Beebe junction.....	751.3
31.5	Beebe station.....	769.9
33.5	Rock Island and Derby Line station.....	942.0
32.0	North Derby station (International boundary).....	710

Miles from Dudswell	MAINE CENTRAL RAILROAD	
0.00	Dudswell, junction with Quebec Central Ry., main line, 24.0 miles from Sherbrooke.....	699.3
3.15	St. Francis river, water, 646; rail.....	670.5
4.83	Brookbury station.....	720.1
5.10	Salmon brook, water, 711; rail.....	721.6
7.52	Berryline siding (summit).....	806.2
11.85	Eaton river, water, 650; rail.....	670.7
12.25	Canadian Pacific Ry., 'Short line,' crossing, 353.0 miles from St. John	684.4
12.45	Cookshire station.....	679
16.85	Eaton Corner station.....	807
17.83	Sawyer brook, bed, 789; rail.....	837
19.67	Sawyerville station.....	885
24.90	Clifton river, water, 935; rail.....	952
25.67	Clifton station.....	1,136
27.27	Doncaster station.....	1,260
30.64	St. Malo station.....	1,506

Miles from
Dudswell

MAINE CENTRAL RAILROAD

Elevation
above mean
sea level

31.91	Summit	1,585
32.91	Auckland station	1,538
34.42	Melvina station	1,437
37.43	Hall stream, water, 1,345; rail	1,360
38.02	Hall stream, water, 1,300; rail	1,321
39.00	Paquetteville station	1,238
42.77	East Hereford siding (gravel pit)	1,164
43.31	Hall stream, water, 1,128; rail	1,140
44.06	Hall stream, bed, 1,114; rail	1,124
44.27	East Hereford station	1,118
48.25	Hereford station	1,085
48.43	International boundary, rail	1,089

INDIAN RIVER RAILWAY
(Projected)Miles from
Megantic

0.0	Megantic, junction with Canadian Pacific railway	1,319
0.4	Chaudière river, water, 1,319; grade	1,323
5.2	Brook, bed, 1,310; grade	1,331
10.2	Spider river, water, 1,310; grade	1,318
15.2	Road crossing	1,375
18.2	International boundary	1,606

Miles from
Lyster

LOTBINIERE AND MEGANTIC RAILWAY

	Lyster village, 2.7 miles from station	463
0.0	Lyster, junction with Grand Trunk Ry., Quebec branch	446
2.3	Summit	472
8.9	Lourdes station	412
11.6	Brosseau Mill station	422
12.9	Ville-Roy, junction with Intercolonial Ry., main line, 720.19 miles from Halifax	393.6
13.3	Riv. Creuse, bed, 378; rail	384
17.1	Ground and rail	349
23.1	Ste. Philomène station	216.7
23.8	Quebec, Montreal and Southern Ry. crossing	193.1
24.1	Riv. aux Ormes, bed, 167; rail	182.6
25.9	Parisville station	180.0
27.8	Rivière-du-Chêne station	120.7
27.9	Riv. du-Chêne, water, 65; bed, 50; rail	121.6
29.7	St. Jean-des-Chaillons station	120.2
	St. Lawrence river, at St. Jean des Chaillons, high water	11

QUEBEC, MONTREAL AND SOUTHERN RAILWAY—
SHORE DIVISIONMiles from
St. Lambert

0.0	St. Lambert, junction with Grand Trunk Ry., 6.32 miles from Montreal	63
1.7	Montreal South station	63.5
2.6	Longueuil West station	54.3
2.9	Longueuil station	55.1
8.6	Boucherville station	40.4
12.9	River St. Charles, water, 32; rail	49.4
13.8	Verennes station	49.1
21.3	Verrières station	63.8
25.5	St. Antoine station	57.4
29.5	Contrecoeur station	66.1

Miles from
St. Lambert

QUEBEC, MONTREAL AND SOUTHERN RAILWAY—
SHORE DIVISION

Elevation
above mean
sea level

33.9	St. Roch station.....	56.0
36.6	Lanoraie station.....	81.8
44.5	Richelieu river, high water, 29.6; low water, 11.6; rail	47.9
44.5	Sorel station.....	48.2
49.5	Bellevue, junction with Southern division.....	39.2
51.5	Frappier station.....	42.3
54.5	Yamaska station.....	54.0
54.6	Yamaska river, high water (1892), 34; water (May, 1892), 17; bed, 7; rail.....	53.4
54.9	Yamaska East station.....	51.0
57.3	Girard siding.....	63.8
60.8	St. François du Lac station.....	76.9
61.2	River St. Francis, high water, 36; low water, 17; bed, 10; rail	73.3
61.3	Pierreville station.....	76.1
68.2	Baieville station.....	79.6
72.9	Moulin Rouge station.....	77.2
75.7	Nicolet river, high water, 40; low water, 16; rail.....	70.7
75.8	Intercolonial railway, Nicolet branch, crossing.....	76.2
76.0	Nicolet station.....	73.7
81.9	St. Grégoire station.....	82.0
82.5	Grand Trunk Ry., Doucet Landing branch, crossing.....	81.2
86.7	Lake St. Paul station.....	76
87.4	Bécancour river, high water, 39; low water, 22; rail.....	69
88.2	Bécancour station.....	72
93.0	Rivière Gentilly, bed, 22; rail.....	84
93.5	Rivière Gentilly station.....	83
96.1	Gentilly station.....	87
101.4	Levrard station.....	138
104.9	Becquets station.....	148
109.1	Lotbinière and Megantic railway crossing.....	193.1
109.6	Fortierville station.....	194

Projected Extension

Fortierville station.....	194
L'Espérance creek, lots 167 and 168, St. Emile parish, low water, 211; high water.....	217
Rivière du Chêne, lot 291, St. Emile parish, low water, 112; high water.....	124
Highway crossing, lot 237, range II, Ste. Croix parish.....	249
Highway between lots 265 and 50, range II, Ste. Croix parish.....	230
Highway between lots 259 and 260, range I, St. Antoine parish, 0.6 mile south of Range road.....	231
Highway between St. Antoine and St. Apollinaire, 988 feet north of Range road.....	216
Vicontent river, crossing lots 384 and 385, range II, St. Nicolas parish, high water.....	194
Highway between lots 32 and 34, range I, St. Nicolas parish, 1,150 feet south of Range road.....	112

Miles from
Noyan

QUEBEC, MONTREAL AND SOUTHERN RAILWAY—
SOUTHERN DIVISION

0.0	Noyan, junction with Grand Trunk Ry., Ottawa division, 7.7 miles from Alburgh junction.....	122.5
0.1	Grand Trunk Ry. crossing.....	123.7
2.7	Clarenceville station.....	122.0

Miles from
NoyanQUEBEC, MONTREAL AND SOUTHERN RAILWAY—
SOUTHERN DIVISIONElevation
above mean
sea level

7.3	Riv. du Sud, water, 93; rail.....	107.1
9.2	Henryville station.....	114.3
11.5	Summit, ground and rail.....	146
14.4	Sabrevois station.....	122.0
18.8	Barbotte river, water, 94; rail.....	108.6
21.8	Iberville station, junction with Central Vermont R. R.....	119.5
22.5	Iberville junction, with Canadian Pacific Ry., 'Short Line', 450.9 miles from St. John.....	114.9
25.3	Stream, bed, 117; rail.....	130
27.1	St. Grégoire station.....	155
30.1	Ste. Angèle station.....	157
31.6	Central Vermont R.R. crossing.....	153
33.2	Summit.....	161
34.4	Rougemont station.....	154
35.7	Central Vermont R.R., St. Césaire branch, crossing.....	144
37.1	Caroline station.....	121
41.4	St. Damase station.....	112
45.6	Ste. Madeleine station.....	113
49.6	St. Hyacinthe station.....	117
58.2	St. Barnabé station.....	121
62.5	St. Jude station.....	100
64.4	Riv. Salvaille, water, 44; rail.....	100
68.3	St. Louis station.....	101
72.8	St. Aimé station.....	89
77.8	St. Robert station.....	71
81.1	Bellevue, junction with Shore division, 49.5 miles from St. Lambert.....	39.2

Miles from
Rouses Point

NAPIERVILLE JUNCTION RAILWAY

0.0	Rouses Point, N.Y., station.....	123
1.0	International boundary.....	116
1.1	Rouses Point junction, Que.....	140
5.5	Grand Trunk Ry., Ottawa division, crossing.....	141.5
5.9	Lacolle river, water, approx., 131; rail.....	147
6.0	Lacolle station.....	147
8.5	Summit.....	191
13.4	Napierville station.....	184
13.6	Little Montreal river, water (May 3, 1907), 164; rail.....	186
19.3	St. Edouard station.....	178
19.5	Rivière à la Tortue, bed, 165; rail.....	179
20.5	Summit.....	193
24.3	La Tortue station.....	134
28.4	Delson, junction with Grand Trunk Ry., 18.8 miles from Montreal.....	91.7

Miles from
PhilipsburgMONTREAL AND VERMONT JUNCTION RAILWAY
(Projected)

0.0	Philipsburg station ground.....	153
5.9	Pike river, water, 102; grade.....	117
11.9	Brook, bed, 131; grade.....	145
13.0	Summit.....	162
17.5	Red creek, bed, 135; grade.....	139
20.9	St. Athanase station ground.....	116
21.1	Richelieu river, water, 92; grade.....	116
21.4	St. Johns station.....	116

Miles from
St. Lambert

CENTRAL VERMONT RAILWAY

Elevation
above mean
sea level

0.00	St. Lambert, Grand Trunk Railway station	
11.10	Montreal river, water, 23; rail	73.9
11.95	Chambly Basin station	45.0
13.32	Chambly Canton station	42.2
13.79	Chambly canal, water, 85; rail	76.8
13.95	Richelieu river, water, 66; rail	91.0
16.16	Richelieu station	94.4
		78.1

QUEBEC FRONTIER RAILWAY
(Projected)

Miles from
Dundee

0.0	Dundee station	176
5.0	Road crossing	193
11.4	Road crossing	187
15.8	Châteauguay river, water, 160; grade	168
19.2	Outarde river, bed, 140; grade	151
26.0	Creek, bed, 272; grade	279
30.0	Franklin Centre station	448
36.7	Creek, bed, 285; grade	297
37.8	Havelock Centre station	266
41.3	English river, bed, 231; grade	240
44.5	Depression	203
46.3	Hemmingford station	265
50.2	Lacolle river, bed, 179; grade	185
56.7	Lacolle station	155
58.1	Grand Trunk Ry., Rouses Point branch, crossing	131
59.2	Richelieu river, high water, 101; grade	107
60.5	St. Thomas station	125
63.3	Clarenceville station	117
74.3	Central Vermont R.R. crossing	172
76.2	Bedford station	187
79.6	Pike river, bed, 233; grade	246
80.0	Stanbridge East, junction with Central Vermont R.R.	260

NEW YORK CENTRAL RAILROAD—ADIRONDACK
DIVISION

Miles from
Adirondack

0.0	Adirondack, junction with Canadian Pacific Ry. 'Short line,' 472.8 miles from St. John	96.4
5.3	Châteauguay river, low water, 63; high water, 73; rail	86
5.5	Châteauguay station	85
6.2	River St. John, high water, 79; low water, 70; rail	83
7.5	Woodlands station	103
9.5	Bellevue station	98
13.6	Beauharnois station	132
13.8	St. Louis river, rail	134
21.0	St. Timothée station	174
24.3	Cecile, junction with Grand Trunk Ry., Ottawa division, 48.7 miles from Alburgh junction	149.6
26.4	Valleyfield station	158
31.8	St. Stanislas station	157
34.0	New Erin station	174
38.5	Huntingdon station	167
38.6	Grand Trunk Ry., Massena Springs branch, crossing	167
40.0	Trout creek, bed, 139; rail	165
42.3	Athelstan station	171
47.2	International boundary	266

Miles from
Quebec

QUEBEC RAILWAY, LIGHT AND POWER COMPANY

Elevation
above mean
sea level

0-0	Quebec, junction with Canadian Northern (Quebec and Lake St. John) railway.....	14
0-6	St. Roch Nord station.....	17
2-6	Beauport station.....	22
5-8	Montmorency station.....	18
6-6	Montmorency river, water, 11; rail.....	19
9-6	Ange Gardien station.....	17
15-5	Château Richer station.....	15
20-5	Ste. Anne de Beaupré station.....	17
22-9	River Ste. Anne, bed, 3; rail.....	14
25-2	St. Joachim station.....	26

GREAT NORTHERN RAILWAY

See pages 208-210.

QUEBEC AND LAKE ST. JOHN RAILWAY

See pages 204-208.

HULL AND AYLMER ELECTRIC RAILWAY

See page 41.

NATIONAL TRANSCONTINENTAL RAILWAY—SUNDRY
ELEVATIONS, SOUTH OF RIVER ST. LAWRENCE

Kamouraska County

Pohengamook Township.	
Lake Pohengamook.....	680
Wild Cat river at cor. lots 1 and 2 and R. VII and VIII.....	1,387
Chabot Township—	
Lac Rocheuse, R. 11.....	1,360
Intersection of Bras Ouest Rivière Boucanée with lot 56, R. V....	1,400
Intersection of lot line 35 and 36 with range line IV and V.....	1,530
Range line IX and X, on lot 53.....	1,325
Woodbridge Township—	
Lac aux Loutres, R. IX.....	1,129
Painchaud Township—	
Intersection of lot line 35 and 36 and ranges A and B.....	1,285
Intersection of lot line 53 and 54 and ranges A and B.....	1,480
Middle distance on lot line 56 and 57, range A.....	1,450
Lot line 55 and 56, near Chapais tp., range B.....	1,340
Intersection of lot line 78 and 79, ranges A and B.....	1,100
Creek crossing line between ranges A and VII.....	1,500
Creek on lot 17, R. VII.....	1,570
Road at intersection of lot line 31 and 32, R. VIII.....	1,610
Lot 25 at line between ranges VII and VIII.....	1,550
Creek on lot 1, R. XII.....	1,750
Creek on lot 1, near line between ranges XII and XIII.....	1,600
Creek on lot 1, R. XIII, near International boundary.....	1,850
Ixworth Township—	
Lake Chaudière.....	1,272
Chapais Township—	
Intersection of lot line 53 and 54, with range line I and II.....	1,550
Intersection of Taché road with lot 54, range line II and III....	1,960
Intersection of lot line 42 and 43, with range line III and IV....	1,850
In range IV, lot 33.....	1,650
Lake on ranges IV and V.....	1,657
Lac de l'Est.....	1,063

NATIONAL TRANSCONTINENTAL RAILWAY—SUNDY
ELEVATIONS, SOUTH OF RIVER ST. LAWRENCE

Elevation
above mean
sea level

L'Islet County

Aubert Parish	
Rivière St. Jean, at intersection with public road, R. II	17
St. Aubert church, road near	400
Bridge over Rivière Trois Saumons, R. I.	125
Bridge, ranges I and II, over Rivière Trois Saumons	414
Bridge, ranges II and IV, over Rivière Trois Saumons	638
Ashford Township—	
Bridge over Rivière Trois Saumons, lot 27, R. I.	810
Elgin Road bridge over Rivière Trois Saumons, range B	1,120
Elgin road on lot 22, range B, summit	1,025
Lac Noir	1,123
Elgin Road bridge over branch of Ternier river, R. XI	1,128
Fournier Township—	
Lake Terrien	1,254
Lafontaine Township—	
Intersection of lot line 54 and 55 with range line III and IV	1,254
Intersection of range line IV and V with brook on lot 7	1,170
Intersection of brook with range line VI and VII, lot 1	1,180
Brook, crossing line between lot 1, R. VII and lot 17, range B	1,130
Brook, at lot line 21 and 22, boundary of R. VII	1,097
Lot line 8 and 9, south boundary of R. VII	910
Rivière Noire at lot line 1, R. VII	890
Dionne Township—	
Lot 1 and 2, north boundary of	1,195
At lot line 17 and 18, R. I.	1,160
At lot line 28 and 29, R. I.	1,276
Northwest corner of lot 1, range III	1,190
Intersection of lot line 7 and 8 with R. II and III	1,010
Rivière Noire, crossing ranges II and III on lot 10	890
Garneau Township—	
Elgin road at N.E. cor. of lot 20, range A	1,210
Ste. Perpétue church, Elgin road	1,110
Junction of Elgin and Taché roads, lot 27, range A	1,110
Elgin road on lot 38, range A	1,210
Elgin road on lot 42, range A	1,110
On Elgin road at N.E. cor. lot 46, range A	1,110
On Elgin road at N.E. cor. lot 50, range A	1,110
Branch of Rivière Noire crossing lot line 50 and 51, R. A	1,000
Elgin road at S.E. cor. of township	1,000
Casgrain Township—	
Brook, crossing north boundary of township in lot 15, R. I.	1,189
N. W. cor. of lot 19, range I	1,218
N. W. cor. of lot 24, range I	1,185
On lot line 14 and 15, middle of range I	1,150
On lot line 13 and 14, R. II, near R. III	1,100
Intersection of lot line 35 and 36 with road, R. II	1,020
Elgin road, at intersection of lot line 13 and 14	1,036
Elgin road, at intersection with lot line 18 and 19	1,153
St. Pamphile, intersection of Elgin road and Church street	1,275
Intersection of lot line 1 and 2 and ranges III and IV	1,141
Branch of Rivière Noire crossing R. III and IV, in lot 6	1,070
Intersection of lot line 10 and 11 with R. III and IV	1,193
Intersection of lot line 12 and 13 with range line III and IV	1,236
Brook, at crossing range line III and IV, on lot 16	1,146
Intersection of lot line 17 and 18, with R. III and IV	1,174
Brook, at crossing range line III and IV on lot 20	1,040

**NATIONAL TRANSCONTINENTAL RAILWAY—SUNDRY
ELEVATIONS, SOUTH OF RIVER ST. LAWRENCE**

Elevation
above mean
sea level

Casgrain Township—Continued—	
Intersection of lot line 23 and 24 with R. VII and IV.....	1,174
Branch of Rivière Noire, crossing R. V and VI in lot 10.....	1,060
Branch of Rivière Noire, crossing range line V and VI in lot 21.....	920
Arago Township—	
Swamp, lots 35 to 52, R. VII.....	1,130
Intersection of lot line 29 and 30 with St. Marcel road, R. VII.....	1,195
Lac de la Montagne Claire, R. III.....	1,400
Lac Violon, N.W. cor. of R. III.....	1,360

Montmagny County

Talon Township—	
Lake McKin, R. II.....	1,260
Brook crossing N. boundary of township in lot 17.....	1,330
Patton Township—	
On lot line 31 and 32, R. IV, near R. III.....	1,510
Lake Long, R. III.....	580
Montminy Township—	
Lake Joly, ranges IV and V.....	1,365
Bridge over Gabriel river, lot 27, ranges III and IV.....	1,200
Rolette Township—	
Brook, at crossing lot line 18 and 19, R. IV.....	1,443
Middle of lot 20, R. IV.....	1,577
On lot 36, 0.25 mile south of range line V and VI.....	1,800
Intersection of lot line 23 and 24 with range line VI and VII.....	1,516
Road in lot 36, ranges VI and VII.....	1,670
Road at lot line 15 and 16, R. VII and VIII.....	1,573
Road at lot line 17 and 18, R. VII and VIII.....	1,533
Intersection of lot line 4 and 5 with range line VII and VIII.....	1,370
Panet Township—	
Intersection of lot line 41 and 42 with range line III and IV.....	1,500
On lot line 21 and 22, 0.2 mile south of R. III and IV.....	1,240

Bellechasse County

St. Michel seigniory, St. Lazare church, road opposite.....	573
Lake Pierre Paul, R. III, St. Gervais seigniory.....	1,060
Near small lake, R. III, St. Gervais seigniory.....	1,120
Lac Vert, St. Gervais seigniory.....	1,248
Bellechasse Township—	
Creek crossing St. Magloire road in lot 40.....	1,240
Creek crossing St. Magloire road in lot 12.....	1,324
Creek at crossing lot line 10 and 11, range S.W.....	1,314
Roux Township—	
St. Magloire road at St. Magloire church.....	1,562
St. Magloire road at brook, lot 40.....	1,406
St. Magloire road at lot 9.....	2,335
Mailloux Township—	
St. Magloire road, Rivière du Pin bridge, lot 31.....	1,510
St. Philémon church.....	1,150
Taché road, Gabriel River bridge, lot 37.....	1,100
Taché road, intersection with lot line 15 and 16.....	910
Taché road, intersection with brook on lot 8.....	900
Buckland Township—	
Road between lots 14 and 15, intersection with brook, R. I.....	768
Same road in R. I, near R. II.....	948
Same road, quarter-mile west of range line I and II.....	978

NATIONAL TRANSCONTINENTAL RAILWAY—SUNDRY
ELEVATIONS, SOUTH OF RIVER ST. LAWRENCE

Elevation
above mean
sea level

Dorchester County

Frampton Township—	
Ste. Malachie church, road opposite.....	954
Ste. Claire Parish—	
Ste. Claire church, road opposite.....	590
Road, west side of Etchemin river.....	618
Road, east side Etchemin river and 0.7 mile N.W. of Ste. Claire	655
Junction of roads, E. of Etchemin river, 1.5 mile S. of St. An-	
selme.....	569
St. Anselme Parish—	
Bridge, W. of Etchemin river, 1.6 mile S. of St. Anselme....	525
St. Anselme church, road opposite.....	506

NATIONAL TRANSCONTINENTAL RAILWAY—TRIM.
LINES AND LOCATIONS—LAKE BAKER TO ST.
JEAN-CHRYSOSTOME

Miles from
Lake Baker

0	Grade, Temiscouata county, Robinson tp., R. VI, lot 37.....	695
5	Grade, Temiscouata county, Robinson tp., R. III, lot 24.....	721
6.8	Discharge of lake Long, high water, 639; low water (June, 1905)	636
10-17	Grade, Botsford tp., lot 48 to lot 11, R. IX, practically level....	681
20	Head of lake Long, Estcourt tp., R. VII, lot 62, grade.....	679
23	Blue river, water (Sept., 1905), in R. V.....	591
27	Grade, Estcourt tp., R. III, lot 49.....	590
32.1	St. Francis river, at outlet of Pohengamook lake, high water, 679; low water.....	673
36	St. Eleuthère road, Pohengamook tp., R. VII, lot 24.....	806
37.7	Rivière Boucanée, Pohengamook tp., R. VI, lot 26, water....	791
38.6	Bras Nord, Rivière Boucanée, Pohengamook tp., R.V., lot 22, water (Nov., 1905).....	830
41	St. Eleuthère road, Pohengamook tp., R. VIII, lot 19.....	916
45	Grade, Pohengamook tp., R. X, lot 17.....	1,061
47.7	Northwest branch Wild Cat river, Pohengamook tp., R.X, lot 7, water (Dec., 1905).....	1,076
51	Grade, Kamouraska county, Chabot tp., R.X, lot 52.....	1,226
57	Grade, Chabot tp. R. XI, lot 22.....	1,382
59.2	Creek, R. IX, lot 30, water (Dec. 1905), 1,317; grade, 0.8 mile west	1,357
61.7	Creek, R. VII, lot 25, water (Nov. 1905), 1,127; grade, 0.3 mile west.....	1,336
64.4	Creek, R.V, lot 27, water (Oct., 1905), 1,205; grade, 0.6 mile west	1,286
69	Rivière aux Loutres, Chabot tp., R. II, lot 5, water (Oct., 1905), 1,213; grade, one mile south.....	1,277
74.2	Creek, Painchaud tp., R.I., lot 39, water (Sept., 1905), 1,201; grade, 0.2 mile east.....	1,221
75.2	Marie river, R. II, lot 34, water, 1,172; grade, 0.2 mile east.....	1,217
80	Government road, Painchaud tp., range A, lot 18, grade.....	1,201
81.3	Rivière du Loup, lot 25, range B, water, 1,132; grade, 0.7 mile W.	1,209
85.1	Boundary between Painchaud and Lasalle tps., grade.....	1,240
86	Grade, Ixworth tp., R. XIII, lot 27.....	1,322
92	Rivière d'Eau Chaude, R. XIII, lot 13, water (Oct., 1905), 1,277; grade, one mile west.....	1,288
93.4	Ste. Anne road, lot 9, R. XIII, Ixworth tp., grade.....	1,282
98	Chapais tp., lot 8, R. II, grade.....	1,249
101	L'Islet county, Lafontaine tp., lot 50, R. IV, grade.....	1,188
104.5	Rivière St. Roch, lot 33, R. IV, water (Oct., 1905), 1,036; grade, half mile west.....	1,150

NATIONAL TRANSCONTINENTAL RAILWAY—TRIAL
LINES AND LOCATIONSElevations
above mean
sea level

Miles from Lake Baker	LAKE BAKER TO ST. JEAN-CHRYSOSTOME	
112	Elgin road, Garneau tp., lot 13, range A, grade	1,150
116	Garneau tp., lot 17, R. IV, grade	1,159
120.4	Cooly brook, lot 31, R. VI, high water (Aug., 1905), 1,069; grade, 0.6 mile west	1,098
122.8	Little Cooly brook, Garneau tp., lot 39, R. VIII, high water (Aug., 1905), 1,130; grade, 0.2 mile west	1,140
126.9	Radsoult river, Leverrier tp., lot 36, R. I, high water, 1,139; low water (Sept., 1905), 1,136; grade, 0.1 mile west	1,140
131	Leverrier tp., lot 12, R. II, grade	1,217
135.4	Creek, Talon tp., lot 39, R. II, water (Sept., 1905), 1,246; grade, west 0.6 mile	1,260
139.2	Northwest river, lot 18, R. III, high water, 1,249; low water (Oct., 1905), 1,245; grade, 0.8 mile west	1,295
142	Lac Crapaud, Talon tp., lot 2, R. IV, water (Oct., 1905), 1,250. grade	1,297
147	Rolette tp., lot 23, R. VII, grade	1,375
150	Panet tp., lot 33, R. II, grade	1,327
155	Rivière Noire, Bellechasse tp., lot 6, R. V, high water, 1,234; low water (Oct., 1905), 1,231; grade, one mile west	1,287
157	St. Magloire road, lot 36, R. V, grade	1,262
163.7	Rivière des Roches, Langevin tp., lot 1, R. IX, water (July, 1905), 1,253; grade, 0.3 mile west	1,287
170	Ware tp., lot 28, R. VI, grade	1,284
175	Lake Etchemin, Ware tp., water (July, 1905), 1,233; grade	1,264
181.9	Sanigan river, lot 26, R. VII, Cranbourne, high water, 1,150; low water (Sept., 1905), 1,147; grade, 0.1 mile west	1,190
184.0	Vivian river, lot 24, R. IV, water (Sept., 1905), 1,037; grade, 0.1 mile west	1,101
180	Cranbourne tp., lot 39, R. I, grade	1,021
193	Frampton tp., lot 23, R. XI, grade	981
197.9	Henderson river, lot 13, R. VIII, high water, 838; low water (Oct., 1905), 835; grade, 0.1 mile north	808
201	Pike river, lot 7, R. VII, Frampton tp., water (Oct., 1905), 796. grade, one mile north	811
209	Ste. Claire concession, lot 387, grade	787
214	St. Anselme parish, lot 640, range St. Philippe, grade	593
215	Grade, range St. Philippe, lot 632	571
215.3	Quebec Central Ry., main line, crossing, 0.25 mile west of St. Francis river	554
217	Grade, range St. Philippe, lot 599	561
218	Grade, range St. Olivier, lot 676	531
219	Grade, range St. Pierre, lot 731	516
220	St. Isidore parish, range St. Pierre, lot 723, grade	493
225.0	Rivière le Bras, water (Oct., 1905), 324; grade, 0.1 mile west	371
233	Grade, range S. W. Riv. Etchemin, lot 792	302

NATIONAL TRANSCONTINENTAL RAILWAY—TRIAL
LINES AND LOCATIONS

Elevation
above mean
sea level

Miles from
St. Alexandre
Road

ST. ALEXANDRE ROAD TO ST. FRANCIS RIVER

0.0	Grade, Kamouraska county, Pohengamook tp., lot F, range I.	1,271
4.6	Bras Nord-est Rivière Boucanée, lot 26, R. IV, water, 1,109; grade, 0.4 mile south.	1,197
7	Pohengamook tp., lot 28, R. VI, grade.	1,106
11	End of profile, Pohengamook tp., lot 19, R. V, grade.	1,039
7	Pohengamook tp., lot 30, R. V, grade.	1,111
11.9	River St. Francis, lot 51, R. II, water, 718; grade, 0.1 mile east.	756
13	End of profile, Pohengamook tp., lot 54, R. II, grade.	765

Miles from
St. Alexandre
Road

FROM ST. ALEXANDRE ROAD, GOING WEST

0.0	St. Alexandre road, Pohengamook tp., lot 18, R. I, grade.	1,295
5	Chabot tp., lot 47, R. II, grade.	1,429
10.2	Rivière aux Loutres, East branch, Chabot tp., lot 17, R. II, water, 1,389; grade, 0.2 mile east.	1,401
14	Rivière aux Loutres, West branch, lot 6, R. III, water.	1,254
14.8	Rivière Trou des Fées, Chabot tp., lot 2, R. II, water, 1,269; grade, 1.2 miles west.	1,293
20.2	Creek, Painchaud tp., lot 38, R. II, water, 1,260; grade, 0.2 mile E.	1,273
25	Painchaud tp., lot 23, range B, grade.	1,381
27.3	Rivière du Loup, lot 37, range A, water, 1,307; grade, 0.7 mile W.	1,326
31	Painchaud tp., lot 23, range A, grade.	1,401
35	Ixworth, lot 27, R. XIV, grade.	1,503
40	Ixworth, lot 17, R. XIV, grade.	1,364
*44	Chapais tp., lot 22, R. II, grade.	1,316
56	Lafontaine tp., lot 18, R. III, grade.	1,116
60	Lafontaine tp., lot 3, R. IV, grade.	1,221
65	Garneau tp., lot 10, R. III, grade.	1,226

Miles from
Lake McKin

LAKE McKIN TO ST. MALACHIE

0.0	Near mile 135 on the Baker Lake line, Montmagny county, Talon tp., R. II, lot 41, grade.	1,245
6	Junction with line via lake Boilard, Patton tp., R. VI, lot 40, grade.	1,470
11	Patton tp., R. II, lot 48, grade.	1,539
15	Montminy tp., R. II N.E., lot 15, grade.	1,475
19	Montminy tp., R. III S. W., lot 1, grade.	1,480
6.7	Rivière aux Veaux, Patton tp., R. V, lot 41, water.	1,434
11	Montminy tp., R. IV N.E., lot 26, grade.	1,583
13	Lake Boilard, water.	1,631
15.1	River Collin, R. IV N.E., lot 6, high water.	1,500
19	River Gabriel, Montminy tp., R. IV S.W., lot 19, water.	1,428
24	Mailloux road, Mailloux tp., range N.E., lot 10, grade.	1,420
27.2	N.W. branch, Rivière du Sud, R. III, lot 16, water.	1,294
28	Mailloux tp., R. III, lot 8, grade.	1,353
34	Buckland tp., R. X, lot 15, grade.	1,228

*From 44.9 miles to 55.4 is same line as mile 96.3 to 106.8 on Lake Baker and St Jean Chrysostôme line

NATIONAL TRANSCONTINENTAL RAILWAY—TRIAL
LINES AND LOCATIONSElevation
above mean
sea levelMiles from
McKin

LAKE MCKIN TO ST. MALACHIE

39	Lac Vert, water, 1,209; grade.....	1,225
44	Buckland tp., R. IV, lot 23, grade.....	1,102
50	St. Malachie parish, R. IX, lot 2, grade.....	1,004
54.1	Hemison river, R. IX, lot 10, water, 847; grade, 0.1 mile north.....	910
55.1	River Etchemin, R. VIII, lot 13, high water, 824; low water, 817; grade, 0.9 mile northwest.....	862
60	Frampton tp., R. VIII, lot 3, grade.....	858
64	End of profile in lot 424, Ste. Claire parish, near mile 206.2 on Lake Baker and St. Jean-Chrysostôme line, grade.....	745

Miles from
Baker Lake
Line

BAKER LAKE LINE TO NOTRE-DAME-DU-ROSAIRE

0.0	Leaves Baker Lake line near mill.....	132
1	Leverrier tp., R. I, lot 4, grade.....	1,225
2	Rivière Noire, Arago tp., R. VII, lot 4, water.....	1,232
3.8	Taché road, N.E. cor. of R. V, Patton tp., grade.....	1,302
6	Discharge of lac Violon, Patton tp., R. IV, lot 6, water.....	1,322
8	Discharge of lake Fortin, R. III, lot 25, water.....	1,323
14.6	Rivière Bras St. Nicholas, Ashburton tp., R. VIII, lot 22, water, 1,306; grade, 0.6 mile east.....	1,336

Miles from
La Tuque Falls

LA TUQUE FALLS TO RIVER COCOOOCACHE

0.0	St. Maurice river, La Tuque falls, water.....	475
4.5	Rivière au Lait, water (Oct., 1904), 490; grade, 0.5 mile west.....	565
8.2	Rivière au Lait, water (Dec., 1904), 668; grade, 0.2 mile east.....	750
12.3	Second lake, Rivière au Lait, water, 887; grade, 0.3 mile east.....	900
14.4	Rat river, water, 904; grade, 0.4 mile east.....	940
16.6	Lac Clair, water, 882; grade, 0.4 mile west.....	930
17.4	Discharge of Lac Clair, water, 878; grade, 0.6 mile west.....	893
20	Reeve lake, water.....	878
21.4	Lac Clochette, water, 875; grade, 0.4 mile east.....	895
22	Muddy lake, water, Dec., 1904.....	875
23	Lake, water.....	888
25	Beaver bay, water, 894; grade, 1.0 mile east.....	905
26.9	Vermilion river, water, 794; grade, 0.1 mile west.....	798
29.6	Vermilion river, water (Dec., 1904), 798; grade, 0.4 mile west.....	796
33	Grade.....	800
36	Lake expansion of Coccoocache river, water (Dec., 1904), 805; grade, 1.0 mile west.....	835
38	Grade.....	882

Miles from
St. Maurice
River

FROM ST. MAURICE RIVER, ALONG RAT RIVER

0.0	St. Maurice river, at mouth of Rat river, water (August, 1905), 398; grade, one mile west.....	422
2	Rat river, water (Aug., 1905), 399; grade, one mile west.....	424
4	Rat river, water, 431; grade, one mile west.....	455
10	Creek, water, 607; grade, one mile east.....	575
11.1	Lake Bélanger, water, 670; grade, 0.9 mile west.....	734
12.9	Ciconcine river, water, 739; grade, 0.1 mile west.....	790
13.3	Ciconcine river, water.....	787
14	Lake Ciconcine, water, Aug., 1905.....	826

NATIONAL TRANSCONTINENTAL RAILWAY—TRAIL
LINES AND LOCATIONS

Elevations
above mean
sea level

BATISCAN RIVER TO LAKE MANUAN, VIA LAC CLAIR		
Miles from St. Stanislas		
0.0	Parish of St. Stanislas, Champlain county	382
1.3	Rivière des Envies, water (Oct., 1904), 358; grade 0.7 mile west	412
4	Parish of St. Séverin	432
10	Parish of St. Théophile	481
10.2	Canadian Northern railway, Laurentian branch, crossing	482
12.6	Canadian Pacific railway, Piles branch, crossing	501
15	River St. Maurice, three miles above Can. Nor. Ry. bridge, water (Oct., 1904), 303; grade, one mile west	350
18.6	Rivière des Piles, water (Dec., 1904), 350; grade, 0.4 mile west	400
20.7	River Madeleine, water, 315; grade, 0.3 mile west	350
24.2	Rivière la Pêche, water, 380; grade, 0.2 mile east	492
25.6	Bouchard creek, water (Dec., 1904), 400; grade, 0.4 mile west	588
30	Grade	770
35	Grade	884
40	Grade	835
45.2	Junction with line to mouth of Mattawin river (Mattawin river at mouth of Rivière Gros Castor, water, Feb. 1906, 660); grade	680
51.4	Crique des Cinq (falls, 20 ft.) water (Nov., 1904), 505; grade, 0.7 mile west	574
53.7	Mattawin river at confluence with St. Maurice, grade	433
50	Grade	1,050
55	Grade	1,184
61	Lake Hebert, water (Sept., 1905), 1,357; grade	1,366
66	Dorval lake, water, 1,415; grade	1,441
67	Sleigh lake, water, 1,430; grade	1,442
70	Grade	1,358
74.5	Rivière la Chienne, water, 1,329; grade, 0.5 mile west	1,355
80	Grade	1,526
84	Grade	1,429
89	Grade	1,402
92.1	Big Muskeg lake, water (Sept., 1905), 1,349; grade, 0.9 mile west	1,369
97	Lac Clair, water, 1,306; grade	1,327
100	Lac Pin Rouge, water, 1,318; grade	1,335
105	Grade	1,441
110	Lac Culotte, water, 1,511; grade	1,547
114	Grand Lac Long, water (Sept., 1905), 1,502; grade	1,523
119.6	Lac Travers, water (Sept., 1905), 1,535; grade 0.4 mile west	1,572
125	Sesakinaga lake, water (Nov., 1905), 1,502; grade	1,506
130	Grade	1,388
135.8	Lake Manuan, water (Nov., 1905), 1,372; grade, 0.2 mile west	1,392
138	Grade	1,384

Miles from ST. STANISLAS PARISH TO ST. ADELPHÉ PARISH

Zero		
0	Grade	375
3	Grade	440
6	River Pierre-Paul, water (Oct., 1904), 378; grade, one mile west	447

NATIONAL TRANSCONTINENTAL RAILWAY—TRIAL
LINES AND LOCATIONSElevation
above mean
sea level

JOLIETTE TO CARTIER TOWNSHIP AND L'ASSOMPTION RIVER

Miles from Joliette		
0.0	Joliette, near Canadian Pacific and Canadian Northern diamond crossing.	208
1	Canadian Pacific railway, St. Gabriel branch, crossing.	212
8	St. Félix de Valois, opposite church.	352
11	Beaulac creek, water, 421; grade, one mile west.	442
17	Grade.	550
22	St. Jean-de-Matha, grade.	667
24.5	Black river, ice, 643; grade, 0.5 mile north.	739
30	Ste. Emélie-de-l'Energie, grade, half-mile south of church.	846
35	Grade.	936
40	Parish of St. Côme, grade.	818
40.7	1st Range line, post between lots 27 and 28, Cartier tp.	804
44.0	St. Côme, L'Assomption river, opp. R.C. church, water, 703; grade, 0.3 mile north.	732
48.7	Parish of St. Alphonse, grade.	642
52.7	Parish of St. Beatrix, grade.	613
53.2	End of profile.	605

ST. THURIBE LINE, PORTNEUF AND CHAMPLAIN
COUNTIES

Miles from Deschambault Junc.		
0.0	Deschambault parish, junction with constructed line, 37 miles from Quebec bridge, grade.	185
0.2	Rivière Belle Isle, water (July, 1905), 155; grade, 0.8 mile west.	180
1.7	Riv. Lachevrotière, water, 155; grade, 0.3 mile west.	180
5.5	River St. Anne, water, 160; grade, 0.5 mile west.	222
7.9	Riv. Noire, water (July, 1905), 120; grade, 0.1 mile west.	180
9.2	Rivière Blanche, water, 150; grade, 0.8 mile west.	220
13	Parish of Ste. Anne de la Pêrade, grade.	255
15.2	River Charest, water (July, 1905), 235; grade, 0.8 mile west.	300

Miles from
BritanniaNORTH LANARK RAILWAY
(Projected)Elevation
above mean
sea level

0-00	Britannia station.....	212
0-62	Canadian Pacific Ry., main line, crossing	203
11-75	Dunrobin station.....	204
17-65	Fitzroy and Torbolton town-line...	262
20-93	Carp river, mean water, 231; grade	241
21-55	Mississippi river, water, 202; grade	233
24-00	Summit.....	272
25-10	Mississippi river, mean water, 234; grade.....	246
27-80	Summit.....	308
28-60	Madawaska river, water (Nov. 15, 1905), 244; grade	282
29-00	Arnprior, Peter street.....	284
29-23	Junction with spur to Braeside station	290
31-31	Gillies siding.....	269
30-10	Canadian Pacific Ry., main line, crossing	305
30-47	Braeside, end of profile.....	298

CANADA ATLANTIC RAILWAY

See pages 147-151

Miles from
St. Polycarpe

GLENGARRY AND STORMONT RAILWAY*

0-0	St. Polycarpe junction, Canadian Pacific Ry., Ontario and Quebec line, and Grand Trunk Ry., Ottawa division—diamond crossing	194-0
	St. Polycarpe, junction with Canadian Pacific Ry., Ontario and Quebec line.....	200
2-5	Summit, ground, 220; rail.....	217
5-3	Bridge End station.....	199
9-1	North Lancaster station.....	187
12-8	Glen Gordon station.....	182
16-3	Williamstown station.....	182
20-2	Glenbrook station.....	178
20-6	Grand Trunk Ry., main line, crossing	191
27-6	Cornwall station.....	183

Miles from
Ottawa

NEW YORK AND OTTAWA RAILWAY

0-0	Ottawa, Central station.....	213-7
1-9	Canadian Northern Ry., main line, crossing	197-1
6-0	Hawthorne, Grand Trunk Ry., Ottawa division, crossing	220-9
8-0	Ramsayville station.....	241-4
8-2	Summit, ground and rail	268
11-0	Piperville station.....	261-7
14-0	Edwards station.....	258-9
17-0	Pana station.....	247-3
21-0	Russell station.....	237-1
24-0	Embrun station.....	224-9
24-2	Castor brook, water (July 24, 1913), 191; rail.....	223-0
28-0	Cambridge station.....	229-2
31-2	South Nation river, water (July 17, 1913), 200; rail	224-2
32-0	Crysler station.....	223-9
35-0	Berwick station.....	244-5
38-0	Finch, junction with Canadian Pacific Ry., Ontario and Quebec line, 79.0 miles from Montreal	274-9

*To be operated by the Canadian Pacific railway

Miles from
Ottawa

NEW YORK AND OTTAWA RAILWAY

Elevation
above mean
sea level

39.5	Finch and Osnabrock town-line road.....	299
42.1	Newington station.....	322.3
44.3	Northfield station.....	333.8
44.6	Summit, ground, 343; rail.....	337
47.0	Harrison station.....	256.5
48.2	Black river, bed, 246; rail.....	255
48.6	Black River station.....	254.4
55.8	Cornwall junction, with Grand Trunk Ry., 69.0 miles from Montreal	201.2
56.7	Cornwall station.....	216.3
57.1	River St. Lawrence, North channel, high water, 162; water (Oct. 22, 1896), 158; rail.....	227
58.9	River St. Lawrence, South channel, high water, 160; water (Oct. 28, 1896), 155; rail.....	189

BROCKVILLE, WESTPORT AND SAULT STE. MARIE
RAILWAY

See page 214

Miles from
Gananoque
Junc.

THOUSAND ISLANDS RAILWAY

0.0	Gananoque junction, with Grand Trunk Ry., main line, 154.0 miles from Montreal.....	346.6
	Gananoque River station.....	265
	Snapper Bridge station, water (Gananoque river), 263; rail.....	277
1.7	Gananoque station.....	251
	River St. Lawrence at Gananoque, mean water.....	240

KINGSTON AND PEMBROKE RAILWAY

See page 50

BAY OF QUINTE RAILWAY

See page 214

CENTRAL ONTARIO RAILWAY

See page 215

IRONDALE, BANCROFT AND OTTAWA RAILWAY

See page 217

HYDRO-ELECTRIC POWER COMMISSION—
KINGSTON AND CORNWALL LINE (Projected)Miles from
Kingston

0.0	Kingston, Ontario St., opp. Place d'Armes.....	254
0.1	Grand Trunk Ry., Kingston branch, crossing.....	256
0.1	Canadian Pacific Ry., Kingston and Pembroke branch, crossing.....	248
0.2	Catarqui river, water (lake Ontario) 246; grade.....	244
3.4	Summit.....	370
6.3	Brook, bed, 324; grade.....	335
7.7	Road to Dufferin, lot 13, con. III, Pittsburg tp.....	292
12.7	Kingston and Gananoque road, opp. St. Lawrence stone church.....	310
15.6	Kingston and Gananoque road, opp. Willow Bank cemetery.....	265
17.6	Crossing road between lots 9 and 10, con. I, Leeds tp.....	272
18.0	Thousand Islands Ry. crossing.....	278
18.2	Gananoque river, water above dam (July 28, 1913), 266; grade.....	275
18.4	Gananoque, Charles street.....	277
25.8	Intersection of Kyes road and Grand Trunk railway.....	321
27.5	Grade opposite G.T.Ry. station at Lansdowne.....	329

*By levels of Geodetic Survey, 201.6.

ONTARIO—SUNDRY RAILWAYS

429

Miles from Kingston	HYDRO-ELECTRIC POWER COMMISSION— KINGSTON AND CORNWALL LINE (Projected)	Elevation above mean sea level
27.8	Lansdowne, road between cons. II and III, lot 20.	323
30.1	Road between Lansdowne and Escott in lot 5, con. II, Escott	311
34.7	Road to Mallorytown on lot 18, con. II, Escott	299
36.9	Road to Mallorytown landing, 200 ft. south of Yonge Mills road (summit)	352
39.8	Jones creek, water, 246; grade	260
43.9	Summit about 0.6 mile to west of side road to Lyn	328
46.6	Grant creek (Aug. 6, 1913), quarter-mile from mouth, water, 246; grade	270
48.0	Canadian Northern Ry., Brockville branch, crossing	270
48.1	Brockville, Cedar street	270
55.2	Creek, half mile N. of Lemon point, water (Aug. 8, 1913)	279
60.7	Prescott, St. Lawrence street	311
61.2	" cor. East and Wood streets	294
62.1	Canadian Pacific Ry., Prescott branch, 300 ft. S. of G. T. Ry.	280
66.1	Road between lots 20 and 21, con. I, Edwardsburg tp.	280
69.8	Cardinal, Grand Trunk Ry. spur to starch works	264
71.1	Road between Grenville and Dundas counties	279
74.5	Iroquois, cor. College and Brock streets	234
76.9	Brook, water (Aug. 15, 1913)	224
82.3	Morrisburg, cor. Church and Rose streets	251
90.6	Aultsville, road east of station and 340 ft. south of Grand Trunk Ry.	238
92.9	Farran Point, road 200 ft. S. of station	237
97.0	Hoople creek, water (Aug. 18, 1913), 199; grade	223
97.1	Wales, road E. of freight shed and 180 ft. south of G.T. Ry.	233
99.1	Road between Osnabruck and Cornwall tps., 5 ft. S. of G. T. Ry.	232
100.6	Moulinette, road 5 ft. south of Grand Trunk Ry.	227
102.0	Mille Roches, about five feet south of road crossing at station	218
105.7	New York and Ottawa Ry. crossing, 450 ft. S. of Cornwall junction signal tower	197
106.7	Cornwall, cor. Cumberland and Seventh streets	187
107.1	" base of hydrant at cor. Seventh and Pitt streets	185
Miles from Stouffville	HYDRO-ELECTRIC POWER COMMISSION—STOUFF- VILLE AND PORT PERRY (Projected)	
0.0	Stouffville station	876
0.2	Grand Trunk Ry., Cobococonk branch, crossing	879
5.7	Canadian Pacific Ry., Ontario and Quebec line, crossing	847
6.6	Junction with Brougham spur line	887
11.0	Brougham station	671
9.6	Creek, bed, 724; grade	768
11.4	Canadian Pacific Ry., Ontario and Quebec line, crossing	860
14.2	Summit	1,037
15.5	Utica, junction with Altona and Utica line	973
22.4	Port Perry station	837
Miles from Altona Junc.	HYDRO-ELECTRIC POWER COMMISSION—ALTONA AND UTICA (Projected)	
0.0	Altona junction, with Stouffville and Port Perry line	874
0.8	Altona station, 300 ft. N. of Pickering and Uxbridge township-line	887
2.0	New Glasgow station	949
4.5	Grand Trunk Ry., Cobococonk branch, crossing	1,117
4.8	Goodwood station	1,117

Miles from Altona Junc.	HYDRO-ELECTRIC POWER COMMISSION--ALTONA AND UTICA (Projected)	Elevation above mean sea level
9.6	Siloam station.....	929
13.1	Summit.....	1,088
14.6	Grand Trunk Ry., Cobocok branch, crossing.....	917
14.9	Uxbridge station.....	900
15.0	Uxbridge, Main street.....	851
19.1	Road crossing.....	1,068
19.5	Summit.....	1,074
20.0	Junction with Newmarket and Manchester line.....	1,051
21.6	Utica, junction with Stouffville and Port Perry line.....	974
HYDRO-ELECTRIC POWER COMMISSION-- PORT PERRY AND BROOKLIN (Projected)		
Miles from Port Perry		
0.0	Port Perry, Queen street.....	837
3.8	Manchester, road crossing.....	915
6.4	High Point, road crossing.....	1,005
7.1	Summit, ground, 0.2 mile south, 1,050; grade.....	1,029
9.4	Canadian Pacific Ry., Ontario and Quebec line, crossing, C.P. Ry., rail, 876; H.E. P.C., grade.....	840
14.2	Brooklin, road crossing.....	542
HYDRO-ELECTRIC POWER COMMISSION--NEW MARKET AND MANCHESTER (Projected)		
Miles from Newmarket		
0.0	Newmarket station.....	769
5.4	Canadian Northern Ry., Toronto and Capreol line, crossing.....	950
8.0	Grand Trunk Ry., Sutton branch, crossing, G. T. Ry., rail, 1,064; H.E.P.C., grade.....	1,014
8.5	Junction with Stouffville Junction and Vivian line.....	1,000
8.7	Summit, ground 0.2 mile east, 1,109; grade.....	1,077
12.7	Creek, bed, 906; grade.....	929
16.2	Summit.....	1,089
17.8	Grand Trunk Ry., Cobocok branch, crossing, G.T. Ry., rail, 888; H. E. P. C., grade.....	916
18.2	Uxbridge, Brock street.....	891
18.3	Uxbridge station.....	897
19.0	Flag station.....	93
21.4	Junction with Altona and Utica line.....	1,077
22.1	Summit, ground, 1,094; grade.....	1,077
24.1	Flag station.....	93
26.3	Manchester station.....	93
HYDRO-ELECTRIC POWER COMMISSION--UNION- VILLE AND SILOAM (Projected)		
Miles from Unionville		
0.0	Unionville station.....	583
6.1	Grade.....	79
8.2	Bethesda, junction with Bethesda and Newmarket line.....	
10.3	Ground, 1,121; grade.....	1,111
12.0	Grand Trunk Ry. crossing.....	1,099
13.3	Musilman lake, junction with Vandorf spur.....	1,111
17.5	Grand Trunk Ry., Sutton branch, crossing (crosses at stream; ap- parently H.E.P.C. grade is 22 feet under G. T. Ry.).....	1,068
18.6	Vandorf, road crossing.....	1,068
18.2	Siloam station.....	929

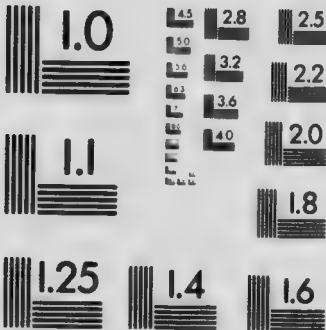
Miles from
GuelphHYDRO-ELECTRIC POWER COMMISSION—GUELPH
AND GEORGIAN BAY, EAST LINE (Projected)Elevation
above mean
sea level

0.0	Guelph, end of Guelph Radial Ry. track on Elora road.	1,102
4.5	Guelph and Nichol town-line.	1,231
6.1	Creek, high water, 1,209; water, 1,206; grade.	1,221
8.3	Road crossing.	1,264
11.6	Grand river, water, 1,265; grade.	1,296
12.1	Fergus, Main street.	1,312
12.7	Intersection of Main street with Nichol and West Garafraxa town line.	1,310
13.9	Canadian Pacific Ry., Elora branch, crossing.	1,407
15.4	Creek, high water, 1,397; water, 1,387; grade.	1,403
18.3	Adjoining concession road.	1,505
21.0	Metz corner.	1,538
22.0	Arthur junction, with Guelph and Georgian Bay, West line.	1,538
23.6	West Garafraxa and West Luther town-line, S.E. cor. lot 9, con. I, West Luther.	1,552
24.5	Canadian Pacific Ry., Teeswater branch, crossing, lot-line 9 and 10.	1,546
27.0	Intersection lots 9 and 10, cons. IV and V, ground, 1,599; grade.	1,505
26.8	Damascus, 250 feet east of corner.	1,379
32.1	Monck, 300 ft. W. of corner, ground, 1,612; grade.	1,513
35.6	Intersection of side-line 9 and 10, West Luther, with West Luther and Proton town line.	1,555
38.8	Kingscote, 800 ft. W. of corner, lots 22 and 23, cons. IV and V.	1,589
39.0	Summit, ground, 1,700; grade.	1,594
41.4	Saugeen river, high water, 1,546; grade.	1,583
45.7	Grade.	1,585
46.6	Birdell, corner of lots 22 and 23, and cons. XVI and XVII.	1,592
50.1	Canadian Pacific Ry., Owen Sound branch, crossing, 1,000 ft. S. of Saugeen River bridge.	1,572
50.3	Muddy Saugeen river, water, 1,551; grade.	1,566
50.5	Saugeen junction, opposite C. P. Ry. station.	1,560
52.5	Flesherton junction, with Collingwood branch.	1,576
53.8	Beaver river, bed, 1,427; grade.	1,455
53.9	Flesherton, road between lots 150 and 151, 2,100 feet west of Main street.	1,574
60.5	Markdale, road between lots 100 and 101, 2,500 ft. E. of Toronto and Sydenham road, ground, 1,360; grade.	1,368
61.3	Saugeen river, lot 1, con. XII, Euphrasia, water, 1,328; grade.	1,346
67.4	Lot-line 15 and 16, con. XII, Holland, 2,050 feet west of town-line.	1,365
66.6	Town-line between Holland and Sydenham, 500 ft. E. of cons. X and XI, Holland, ground, 1,062; grade.	1,047
66.0	Bognor, junction with Meaford branch.	820
70.5	Bighead river, water, 777; grade.	791
82.2	Heathhead, line between cons. VIII and IX, 400 ft. S. of lot-line 9 and 10, ground, 1,026; grade.	1,029
84.0	Rockford, lot-line 9 and 10, 800 ft. W. of cons. X and XI, ground, 956; grade.	959
89.0	Canadian Pacific Ry., Owen Sound branch, crossing.	719
91.7	Owen Sound, First Ave. E., opp. Canadian Pacific Ry. station.	588
	Georgian bay, water (Aug., 1914).	580.6



MICROCOPY RESOLUTION TEST CHART

(ANSI and ISO TEST CHART No. 2)



APPLIED IMAGE Inc

1653 East Main Street
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Miles from Flesherton Junc.	HYDRO-ELECTRIC POWER COMMISSION—COLLING- WOOD BRANCH (<i>Projected</i>)	Elevation above mean sea level
0.0	Flesherton junction , with Guelph and Georgian Bay, East line, 52.5 miles from Guelph	1,546
4.8	Rock Mills, road crossing.....	1,440
7.5	Artemesia and Osprey town-line	1,489
10.0	Maxwell, road crossing.....	1,571
12.2	Feversham, road crossing.....	1,595
15.9	Summit.....	1,640
16.5	Beaver river, water, 1,620; grade.....	1,623
21.1	Osprey and Collingwood town-line.....	1,208
23.3	Collingwood and Nottawasaga town-line	923
25.2	Pretty river at cons. X and XI, high water, 777; water, 774; grade	783
27.2	Grand Trunk Ry., Collingwood branch, crossing.....	681
29.6	Collingwood , Grand Trunk Ry. spur.....	586
	Georgian bay, water (Aug., 1914)	580.6
Miles from Bognor	HYDRO-ELECTRIC POWER COMMISSION—MEAFORD BRANCH (<i>Projected</i>)	
0.0	Bognor , junction with Guelph and Georgian Bay, East line, 76.0 miles from Guelph.....	820
0.6	Bighead river, bed, 770; grade.....	781
4.9	Bighead river, high water, 746; water, 742; grade.....	756
9.9	Meaford , Main street.....	597
10.0	Bighead river, water (Aug., 1914), 580.6; grade.....	594
Miles from Owen Sound	HYDRO-ELECTRIC POWER COMMISSION—GUELPH AND GEORGIAN BAY, WEST LINE (<i>Projected</i>)	
0.0	Owen Sound station.....	588
0.4	Sydenham river, water, 581; grade.....	600
2.8	Grade.....	821
6.8	Road between concessions VI and VII, Derby tp.....	825
10.0	Derby and Sullivan town-line.....	895
14.6	Desborough, road corner.....	926
22.6	Sullivan and Eldersley town-line.....	964
23.9	Saugeen river, high water, 887; water, 885; grade.....	895
24.3	Chesley, junction with Wingham and Chesley line.....	911
24.4	Chesley, street crossing.....	917
27.2	Creek, high water, 867; water, 865; grade.....	880
30.0	Road between concessions VIII and IX, Bentinck.....	998
34.5	Rocky Saugeen river, water, 869; grade.....	896
34.9	Canadian Pacific Ry., Walkerton branch, crossing 450 ft. west of station.....	911
35.4	Hanover, Durham street.....	912
37.6	Beatty river, water, 926; grade.....	933
44.0	Concession road, XIV and XIII, 1,250 ft. E. of lot-line 25 and 26	1,046
48.6	Concession road, VII and III, 1,500 ft. S. of cons. VII and VIII	1,206
55.0	Grand Trunk Ry., Durham branch, crossing.....	1,347
55.3	Mount Forest, corner Durham and Elgin streets.....	1,347
56.0	Saugeen river, high water, 1,316; water, 1,314; grade.....	1,343
56.9	Canadian Pacific Ry., Teeswater branch, crossing, 1,000 feet south of Mt. Forest switch.....	1,380
60.4	Farewell, 550 feet east of corner.....	1,365
62.7	Wagram, 300 feet east of corner.....	1,384
65.7	Corner of cons. VIII and IX and lots 21 and 22, Arthur tp.....	1,412
68.8	Creek, bed, 1,400; grade.....	1,420
73.0	Arthur, street opposite rink.....	1,498
77.7	Arthur junction , with Guelph and Georgian Bay, East line, 22.0 miles from Guelph.....	1,538

Miles from
WinghamHYDRO-ELECTRIC POWER COMMISSION—WINCHAM
AND CHESLEY (*Projected*)Elevation
above mean
sea level

0.0	Wingham, junction with Huron County main line, 92.6 miles from Goderich.....	1,008
0.4	Wingham, Main street.....	1,008
1.2	Maitland river, high water, 1,011; water, 1,003; grade.....	1,016
1.3	Grand Trunk Ry. crossing, G.T. Ry., bottom of girder, 1,036; H. E. P. Co., grade.....	1,016
4.5	Tur. berry and Culross town-line.....	1,057
9.6	Teeswater, Main street.....	956
9.8	Teeswater river, high water, 949; water, 944; grade.....	954
13.6	Creek, high water, 943; water, 937; grade.....	945
16.6	Formosa, Culross and Carrick town-line.....	997
19.3	Summit, ground, 1,068; grade.....	1,063
22.7	Grand Trunk Ry., Southampton branch, crossing.....	933
23.9	Walkerton, street crossing.....	813
24.1	Saugeen river, high water, 808; water, 795; grade.....	813
28.3	Road between concessions VI and VII, Brant tp.....	857
33.1	North branch Saugeen river, high water, 792; water, 788; grade.....	798
36.5	Grand Trunk Ry., Owen Sound branch, crossing.....	911
36.8	Chesley, junction with Guelph and Georgian Bay, West line, 24.3 miles from Owen Sound.....	911

Miles from
GoderichHYDRO-ELECTRIC POWER COMMISSION—HURON
COUNTY MAIN LINE (*Projected*)

0.0	Goderich, South street.....	711
2.7	Goderich East.....	712
7.9	Goderich junction, with Goderich and Seaforth line.....	665
8.9	Creek, high water, 610; water (Nov., 1913), 605; grade.....	642
12.1	Bayfield Beach station.....	598
12.5	Bayfield river, high water, 592; water (Oct., 1913), 580; grade.....	598
13.3	Bayfield station.....	662
18.0	Grade.....	900
24.9	Zurich, corner.....	842
30.0	Grade.....	760
30.5	Dashwood, junction with Arkona and Grand Bend line.....	761
35.4	Crediton, concession road.....	830
36.4	Ausable river, high water, 790; water (Oct., 1913), 784; grade.....	799
39.2	Grand Trunk Ry., London and Wingham branch, crossing.....	871
40.5	Exeter station.....	890
40.8	Exeter junction, with St. Marys and Exeter line.....	894
41.3	Ausable river, high water, 861; water, 857; grade.....	879
47.1	Hensall corner.....	923
49.6	Kippen station.....	917
53.9	Grade.....	953
56.6	Egmondville station.....	987
57.0	Bayfield river, high water, 974; water (Oct., 1913), 972; grade.....	987
58.0	Grand Trunk Ry., Buffalo and Goderich branch, crossing.....	1,012
58.3	Seaforth, Goderich street.....	1,012
59.0	Seaforth junction, with Goderich and Seaforth line.....	1,011
59.9	Maitland river, high water, 1,013; water (Oct., 1913), 1,008; grade.....	1,024
65.0	Grade.....	1,081
68.0	Walton, town-line between McKillop and Morris.....	1,134
68.3	Canadian Pacific Ry., Hamilton and Goderich branch, crossing.....	1,143
72.3	Brussels junction, with Clinton and Brussels line.....	1,135
73.7	Brussels, concession road.....	1,107
73.8	Maitland river, high water, 1,100; water (Oct., 1913), 1,095; grade.....	1,107
74.0	Grand Trunk Ry., Kincardine branch, crossing.....	1,111

Miles from Goderich	HYDRO-ELECTRIC POWER COMMISSION—HURON COUNTY MAIN LINE (<i>Projected</i>)	Elevation above mean sea level
76.5	Creek, high water, 1,107; water (Oct., 1913), 1,104; grade . . .	1,110
78.8	Jamestown station . . .	1,092
78.8	Branch of Maitland river, high water, 1,085; water (Nov., 1913), 1,081; grade . . .	1,092
83.5	Wroxeter station . . .	1,105
88.1	Grade . . .	1,073
91.3	Grand Trunk Ry., London and Wingham branch, crossing . . .	1,078
92.3	Wingham, Main street . . .	1,012
92.4	Maitland river, water (Oct., 1913), 995; flood (1911), 1,012; grade . . .	1,012
92.6	Wingham, junction with Wingham and Chesley line . . .	1,008
95.9	Maitland river, extreme flood, 999; water (Nov., 1913), 984; grade . . .	1,004
101.5	Grade . . .	996
108.4	Dungannon, concession road . . .	876
111.7	Nile station . . .	845
116.0	Canadian Pacific Ry., Hamilton and Goderich branch, crossing . . .	871
118.0	Ben Miller, concession road, ground, 788; rail . . .	781
118.3	Maitland river, high water, 734; water (Nov., 1913), 729; grade . . .	757
122.7	Grand Trunk Ry., Buffalo and Goderich branch, crossing . . .	776
123.7	Goderich East, junction with main line, 2.7 miles from Goderich . . .	712
	HYDRO-ELECTRIC POWER COMMISSION—GODERICH AND SEAFORTH (<i>Projected</i>)	
Miles from Goderich		
0.0	Goderich junction, with main line, 7.9 miles from Goderich . . .	665
2.5	Creek, high water, 769; grade . . .	807
4.8	Summit . . .	920
7.0	Grand Trunk Ry., Buffalo and Goderich branch, crossing, rail . . .	833
8.2	Grand Trunk Ry., London and Wingham branch, crossing, rail . . .	932
8.3	Clinton, junction with Clinton and Brussels line . . .	933
8.9	Town-line between Hullett and Colborne townships . . .	948
15.9	Summit . . .	1,029
17.6	Seaforth junction, with main line, 59.0 miles from Goderich . . .	1,011
	HYDRO-ELECTRIC POWER COMMISSION—CLINTON AND BRUSSELLS (<i>Projected</i>)	
Miles from Clinton		
0.0	Clinton, junction with Goderich and Seaforth line . . .	933
5.7	Maitland river, high water, 950; water (Dec., 1913), 946; grade . . .	965
10.2	Blyth station . . .	1,082
10.6	Canadian Pacific Ry., Hamilton and Goderich branch, crossing . . .	1,061
15.0	Grade . . .	1,095
16.5	Summit . . .	1,175
18.1	Brussels junction, with Huron County main line, 72.3 miles from Goderich . . .	1,135
	HYDRO-ELECTRIC POWER COMMISSION—ST. MARYS AND EXETER (<i>Projected</i>)	
Miles from St. Marys		
0.0	St. Marys, Main street . . .	992
0.9	Canadian Pacific Ry., St. Marys branch, crossing (to be raised to 987 . . .	984
1.0	Thames river, high water, 983; water, 973; grade . . .	987
1.9	Grand Trunk Ry., main line, crossing . . .	1,047
5.0	Grade . . .	1,067
10.8	Kirkton, junction with London and Stratford line . . .	988
14.1	Winchelsea station . . .	973
15.3	Elimville station . . .	945
19.5	Exeter junction, with Huron County main line . . .	894

Miles from
London

HYDRO-ELECTRIC POWER COMMISSION—LONDON
AND SARNIA (*Projected*)

Elevation
above mean
sea level

0.0	London, Bathurst street, 300 ft. E. of Colborne street.	815
1.0	Grand Trunk Ry., main line, G.T. Ry., rail, 801; H.E.P.C., grade.	775
1.7	North branch of Thames river, high water, 775; water, 753; grade.	750
2.3	Canadian Pacific Ry., Wharncliffe road crossing, C.P. Ry., rail, 796 H.E.P.C., grade.	774
3.0	Junction switch, with London and Stratford line.	785
7.1	Grand Trunk Ry., London and Wingham branch, crossing, rail.	889
9.8	Nelrose, intersection with London and Lobo town-line.	869
10.3	Oxbow creek, high water, 849; water, 844; grade.	856
11.6	Lobo, intersection of Sarnia road and con. line IV and V.	897
15.7	Sydenham river, high water, 776; water, 771; grade.	78
16.0	Poplar Hill station.	795
18.2	Poplar Hill junction, with Strathroy and Dresden line.	807
22.0	Road between concessions II and III, Adelaide tp.	796
23.3	Creek, high water, 748; low water, 745; grade.	753
27.1	Creek, high water, 704; low water, 702; grade.	718
28.4	Keyser, intersection of lot-line 6 and 7 with Adelaide and West Williams town-line, grade.	731
33.2	Arkona junction, with Arkona and Grand Bend line.	790
33.4	Arkona, intersection of lot-line 24 and 25 and Warwick and Bosan- quet town-line.	735
36.0	Birnam station.	741
40.0	Road between concessions II and III, Warwick.	742
43.0	Warwick and Plympton town-line.	742
46.7	Road between concessions IV and V, Plympton.	736
49.1	Reache Corners, junction with Wyoming and Chatham line.	701
50.5	Intersection, side road with Sarnia road.	680
55.1	Intersection of side road and Plympton and Sarnia town-line.	628
60.6	Ditch, high water, 593; water, 577; grade.	600
61.6	Grand Trunk Ry., main line, crossing.	600
63.7	Junction with spur to Point Edward.	591
65.2	Point Edward, Grand Trunk Ry.	585
64.6	Sarnia, George street.	595

Miles from
Poplar Hill
Junc.

HYDRO-ELECTRIC POWER COMMISSION—STRATH-
ROY AND DRESDEN (*Projected*)

0.0	Poplar Hill junction, with London and Sarnia line, 18.2 miles from London.	807
2.5	Sydenham river, near Adelaide and Caradoc town-line, high water, 745; water, 737; grade.	747
5.0	Strathroy, intersection of Albert street and Adelaide and Caradoc town-line.	737
5.1	Sydenham river, Albert street bridge, high water, 727; water, 722; grade.	729
5.8	and Trunk Ry., Sarnia branch, crossing.	742
14.1	Sydenham river, high water, 698; water, 686; grade.	701
14.5	Napier, Main street.	721
19.7	Sydenham river in con. VI, Brooks tp., high water, 673; water, 663; grade.	676
20.6	Alvinston, Michigan Central R.R. crossing, M.C.R.R., rail, 710; H.E.P.C., grade.	736
20.7	Grand Trunk Ry., Kingscourt branch, crossing.	736
26.4	Aberfeldy, road crossing.	676
26.7	Ditch, high water, 635; bed, 625; grade.	636

Miles from Poplar Hill Junc.	HYDRO-ELECTRIC POWER COMMISSION—STRATH- ROY AND DRESDEN (<i>Projected</i>)	Elevation above mean sea level
30.2	Sydenham river, high water, 630; water 619; grade.....	633
31.2	Sherland, road between concessions II and III.....	660
34.6	Florence station.....	615
34.8	Sydenham river, high water, 613; water, 602; grade.....	615
40.9	Rutherford, road crossing.....	624
41.1	Dresden junction , with Wyoming and Chatham line, 24.0 mile- from Chatham.....	621
	HYDRO-ELECTRIC POWER COMMISSION—ARKONA AND GRAND BEND (<i>Projected</i>)	
Miles from Arkona Junc.		
0.0	Arkona junction , with London and Sarnia line, 33.2 miles from London.....	766
7.0	Thedford, Grand Trunk Ry., main line, street crossing, rail.....	683
11.5	Ausable 'cut-off' high water, 593; grade.....	596
18.6	Ausable river, high water, 589; water, 581; grade.....	592
20.4	Grand Bend station.....	611
26.8	Dashwood , junction with Huron County main line, 30.5 miles from Goderich.....	761
	HYDRO-ELECTRIC POWER COMMISSION—WYOMING AND CHATHAM (<i>Projected</i>)	
Miles from Reache Corners		
0.0	Reache Corners , junction with London and Sarnia line, 49.1 miles from London.....	701
2.1	Wyoming, corner Niagara and Main streets.....	706
2.3	Grand Trunk Ry., Sarnia branch, crossing.....	706
2.7	Creek, water, 691; grade.....	699
6.0	Petrolia, Tank street.....	668
7.1	Sydenham river, high water, 628; water, 618; grade.....	638
8.5	Creek, high water, 623; water, 618; grade.....	633
11.5	Creek, crossing lot-line 15 and 16, con. VI, high water, 648; water 639; grade.....	654
12.2	Michigan Central R.R., main line, crossing.....	657
12.8	Oil City, intersection of lots 15 and 16 and cons. IV and V.....	657
14.2	South branch Black creek, high water, 636; water, 629; grade.....	647
14.3	Oil Springs station.....	659
17.5	Edys Mills station.....	660
23.3	Rutherford, intersection of lots 15 and 17 and cons. VII and VIII	627
24.0	Dresden junction, with Strathroy and Dresden line.....	621
27.0	Creek, high water, 596; water, 593; grade.....	601
28.4	Sydenham river, high water, 592; water, 575; grade.....	591
28.8	Dresden, Main street.....	601
29.7	Pere Marquette R.R., Sarnia branch, crossing.....	601
35.0	Road between concessions IV and V.....	600
41.7	Thames river, high water, 593; water, 576; grade.....	596
42.4	Macgregor creek, high water, 593; water, 577; grade.....	596
42.7	Chatham , junction with Chatham, Wallaceburg and Lake Erie Ry.	594
	HYDRO-ELECTRIC POWER COMMISSION—LONDON AND STRATFORD (<i>Projected</i>)	
Miles from London		
0.0	London , junction with London and Sarnia line.....	815
3.0	Junction switch, with London and Sarnia line.....	785
4.1	Arva creek, water, 785; grade.....	793
10.8	Creek, high water, 935; grade.....	945
12.3	Bryanston corner.....	973

ONTARIO—SUNDRY RAILWAYS

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Miles from
London

HYDRO-ELECTRIC POWER COMMISSION—LONDON AND STRATFORD (*Projected*)

Elevation
above mean
sea level

15.5	Summit, ground, 1,091; grade.....	1,083
19.0	Granton, Grand Trunk Ry., main line, crossing, rail.....	1,034
25.5	Woodham, concession road crossing.....	1,019
26.6	Kirkton, junction with St. Marys and Exeter line.....	988
26.8	Kirkton, concession road crossing.....	993
27.7	Fish creek, water, 991; grade.....	997
30.7	Mount Pleasant, concession road crossing.....	1,057
31.0	Russeldale.....	1,095
33.4	Summit, ground, 1,155; grade.....	1,118
33.9	Fullarton, road crossing, ground, 1,094; grade.....	1,090
34.1	North branch Thames river, high water, 1,069; water, 1,059; grad.....	1,075
37.6	Carlingford corner.....	1,126
38.2	Black creek, high water, 1,113; water, 1,103; grade.....	1,118
44.5	Grand Trunk Ry., Buffalo and Goderich line, crossing.....	1,187
46.3	Avon river, high water, 1,149; water, 1,143; grade, Huron St. bridge.....	1,164
46.4	Stratford, opposite post office, junction with Stratford and Humber Bay line.....	1,111

Miles from
Stratford

HYDRO-ELECTRIC POWER COMMISSION—STRATFORD AND HUMBER BAY (*Projected*)

0.0	Stratford, junction with London and Stratford line.....	1,111
0.1	Stratford station.....	1,189
2.2	Grand Trunk Ry., main line, crossing.....	1,196
7.3	Shakespeare station, road crossing.....	1,189
13.7	Nith river, water, 1,085; grade.....	1,100
14.1	New Hamburg station, Scott street.....	1,110
16.8	Baden.....	1,150
19.7	Summit, ground, 1,238; grade.....	1,225
23.0	Road crossing.....	1,195
27.7	Berlin station.....	1,084
28.9	Berlin Street Ry. crossing.....	1,094
32.8	Grand Trunk Ry., main line, crossing, G.T.R., rail, 1,009; H.E.P. C., grade.....	987
33.1	Grand river, water, 963; grade (floor of highway bridge).....	981
33.4	Breslau, road crossing.....	993
37.0	Summit, ground, 1,090; grade.....	1,083
37.5	Mosborough station.....	1,090
42.1	Grand Trunk Ry., Southampton branch, crossing.....	1,113
42.9	Intersection with Guelph Radial Ry.....	1,098
43.1	Canadian Pacific Ry., Hamilton and Goderich branch, crossing.....	1,095
43.8	Grand Trunk Ry., Southampton branch, crossing.....	1,079
44.4	Guelph station.....	1,065
44.8	Grand Trunk Ry., main line, crossing, G.T. Ry., rail, 1,071; H.E.P. C., grade.....	1,045
45.5	Speed river, bed, 1,011; grade.....	1,021
47.0	Canadian Pacific Ry., Hamilton and Goderich branch, crossing.....	1,021
47.3	Eramosa river, bed, 1,009; grade.....	1,020
47.9	Canadian Pacific Ry., Hamilton and Goderich branch, crossing.....	1,023
53.7	Road crossing.....	1,115
55.6	Summit.....	1,170
56.7	Road crossing.....	1,122
62.9	Creek, bed, 861; grade.....	890
67.3	Grand Trunk Ry., Hamilton and Allandale branch, crossing.....	667
67.6	Canadian Pacific Ry., Ontario and Quebec line, crossing, C.P. Ry., rail, 661; H.E.P.C., grade.....	640
67.9	Milton station.....	640

Miles from Stratford	HYDRO-ELECTRIC POWER COMMISSION—STRAT- FORD AND HUMBER BAY (<i>Projected</i>)	Elevation above mean sea level
74.1	Oakville creek, bed, 563; grade.....	611
78.1	Flag station.....	532
83.9	Grand Trunk Ry., Toronto and Hamilton branch, crossing, G.T. Ry., rail, 279; H.E.P.C., grade.....	258
84.4	Port Credit station.....	264
87.6	Etobicoke creek, bed, 253; grade.....	289
90.0	New Toronto station.....	299
91.0	Mimico, opp. Grand Trunk Ry. station.....	302
91.1	Mimico station.....	281
92.5	Humber Bay station.....	281
92.6	Lake Shore road bridge over Humber river, water, 246; floor.....	259
	HYDRO-ELECTRIC POWER COMMISSION—DRUMBO AND LINWOOD (<i>Projected</i>)	
Miles from Drumbo		
0.0	Drumbo, Grand Trunk Ry. station.....	1,011
0.3	Canadian Pacific Ry., Ontario and Quebec line, crossing.....	1,011
4.5	Nith river, water, 972; grade.....	994
6.3	Plattsville station.....	1,000
10.4	Road intersection.....	1,058
14.0	Grand Trunk Ry., main line, crossing.....	1,156
14.1	Baden station.....	1,155
19.2	Grade.....	1,205
21.7	Wellesley station.....	1,196
26.4	Road crossing.....	1,278
30.1	Linwood station.....	1,290
30.2	Canadian Pacific Ry., Guelph and Goderich branch.....	1,292
	HYDRO-ELECTRIC POWER COMMISSION—BRIDGE- BURG AND BEAMSVILLE (<i>Projected</i>)	
Miles from Bridgeburg		
0.0	Bridgeburg station.....	574
0.6	Michigan Central R.R. crossing.....	580
1.2	Fort Erie station.....	574
3.4	Amigari station.....	594
4.7	Crescent Beach station.....	590
6.5	Windmill Point station.....	596
9.3	Ridgeway station.....	620
10.2	Crystal Beach station.....	600
14.0	Sherks station.....	610
19.7	Port Colborne, junction with Welland branch.....	581
19.9	Grand Trunk Ry., Welland branch, crossing.....	584
20.0	Welland canal, water, 572.7; grade.....	581
27.0	Wainfleet station.....	589
30.6	Lowville station.....	581
34.1	Stromness junction, with Port Maitland spur.....	582
35.0	Stromness Village station.....	582
36.8	Port Maitland station.....	577
39.5	Dunnville station.....	579
39.7	Grand Trunk Ry., Buffalo and Goderich branch, crossing.....	586
41.5	Toronto, Hamilton and Buffalo Ry. crossing.....	587
45.5	Grand Trunk Ry., Loop line, crossing.....	588
45.6	Moulton station.....	585
46.0	Michigan Central R.R., main line, crossing.....	585
48.7	Welland river, water, 563; grade.....	573

Miles from
BridgeburgHYDRO-ELECTRIC POWER COMMISSION—BRIDGE-
BURG AND BEAMSVILLE (*Projected*)Elevation
above mean
sea level

50.6	Wellandport station	592
52.7	Bismarck station	604
54.0	St. Ann station	612
55.1	Toronto, Hamilton and Buffalo Ry., Dunnville branch, crossing	609
58.5	Toronto and Niagara Power Co.'s transmission line	628
59.7	Summit, ground, 682; grade	671
62.1	Hamilton, Beamsville and Grimsby Ry. crossing	351
62.4	Beamsville, junction with Queenston and Beamsville line	338
63.4	Beamsville, Grand Trunk Ry. station	296.2

Miles from
Port ColborneHYDRO-ELECTRIC POWER COMMISSION—WELLAND
BRANCH (*Projected*)

0.0	Port Colborne, junction with Bridgeburg and Beamsville line	581
1.1	Humberstone station	584
4.6	Grand Trunk Ry., Loop line, crossing	586
6.5	Michigan Central R.R., main line, crossing	586
7.0	Welland station	580

Miles from
QueenstonHYDRO-ELECTRIC POWER COMMISSION—QUEENS-
TON AND BEAMSVILLE (*Projected*)

0.0	Queenston station	359
0.9	Michigan Central R.R., Niagara branch, crossing	355
2.4	St. David station	356
6.9	Homer station	343
7.3	Welland ship canal, bed, 311; water, 345; grade	369
8.0	Welland canal, Stone Road crossing, water, 371; grade	374
8.1	Junction with Niagara, St. Catharines and Toronto Ry.	359
8.9	Grand Trunk Ry., Welland branch, G.T. Ry., rail, 353; T.N. and St. C. Ry., rail	379
10.4	St. Catharines, corner Ontario and St. Paul streets	359
11.5	Grand Trunk Ry., main line, Niagara Falls and Windsor, crossing 400 feet west of station	345
14.1	Welland creek, bed, 255; grade	330
15.3	Welland creek, bed, 257; grade	331
16.1	Welland station	347
17.3	Welland creek, bed, 277; grade	317
18.7	Welland, crossing township line 1,600 ft. N. of Stone road	328
22.9	Wellandville, North street	340

Miles from
St. ThomasHYDRO-ELECTRIC POWER COMMISSION—ST.
THOMAS AND PORT BURWELL (*Projected*)

0.0	St. Thomas, intersection of Wellington St. and L. and P.S. Ry.	755
0.9	Intersection with Southwestern Traction railway	749
5.1	Creek, bed, 716; grade	757
6.1	Catfish creek, water, 695; grade	742
	(From 6.0 to 10.4 parallel to Grand Trunk Ry., Loop line)	
8.9-10.0	Level	755
11.2	Aylmer, corner John and Talbot streets	748
13.9	Luton, road between cons. IV and V, 400 feet west of lot-line 20 and 21	800
15.3	Creek, water, 695; grade	715
16.2	Mount Salem, road crossing	725
19.6	Calton, road crossing	719
21.3	Road crossing, ground, 695; grade	701
25.9	Port Burwell station	577

Miles from Aylmer	HYDRO ELECTRIC POWER COMMISSION—AYLMER AND WESTMINSTER (<i>Projected</i>)	Elevation above mean sea level
0.0	Aylmer, corner of John street	759
2.5	Aylmer, Michigan Central R.R. crossing, near station	818
4.6	Lyons, junction with Lyons and Tillsonburg line	849
7.9	Summit, ground, 910; grade	902
10.2	Canadian Pacific Ry., Ingersoll branch, crossing	847
10.3	Belmont, street crossing, ground, 850; grade	846
12.5	Summit, ground, 952; grade	944
13.6	Derwent post office	910
18.5	Westminster, junction with London and Port Stanley Ry.	874
	HYDRO-ELECTRIC POWER COMMISSION—LYONS AND TILLSONBURG (<i>Projected</i>)	
Miles from Lyons		
0.0	Lyons, junction with Aylmer and Westminster line	849
2.9	Springfield station, Main street	803
5.8	South Dorchester and Dereham town-line	786
8.3	Brownsville station	804
10.6	Delmer station	795
14.4	Tillsonburg junction, with Tillsonburg and Berlin line	798
14.7	Michigan Central R.R. crossing, M. C. R.R., rail, 800; H.E.P.C., grade	774
15.9	Grand Trunk Ry. crossing, G.T. Ry., rail, 761; H.E.P.C., grade...	784
16.1	Tillsonburg, Broadway street, industrial spur crossing	751
	HYDRO-ELECTRIC POWER COMMISSION—TILLSON- BURG AND BERLIN (<i>Projected</i>)	
Miles from Tillsonburg junc.		
0.0	Tillsonburg junction, with Lyons and Tillsonburg line, 14.4 miles from Lyons	798
0.2	Canadian Pacific Ry., Port Burwell branch, rail	806
3.3	Springford station	826
5.5	Flag station	864
5.7	Spittler creek, bed, 822; grade	847
6.5	Flag station	883
7.5	Newark station	893
11.0	Holbrook station	984
14.0	Road crossing	995
15.5	Flag station	959
17.3	Flag station	945
18.2	Flag station	940
20.1	Grand Trunk Ry., main line, Niagara Falls and Windsor, G.T. Ry., rail, 945; water in creek, 921; H.E.P.C., grade	925
20.68	Woodstock station	941
20.7	Woodstock, junction with Thames Valley Ry., cor. Dundas and Oxford streets	942
21.2	Canadian Pacific Ry., crossing, grade, 945; rail	947
21.9	Grand Trunk Ry., Stratford and Port Dover branch, G.T. Ry., rail, 935, (to be raised to 946); H.E.P.C., grade	925
22.0	Thames river, bed, 918; grade	925
27.8	Innerkip station	990
28.3	Thames river, bed, 958; grade	971
31.6	Horner creek, bed, 983; grade	994
32.8	Bright station	1,044
32.9	Grand Trunk Ry., Buffalo and Goderich branch, crossing	1,042
35.7	Nith river, bed, 984; grade	1,005
36.0	Plattsville station	1,005
38.0	Flag station	1,034

ONTARIO—SUNDRY RAILWAYS

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Miles from
Tillsonburg
Junc.

HYDRO-ELECTRIC POWER COMMISSION—TILLSON- BURG AND BERLIN (*Projected*)

Elevation
above mean
sea level

42.6	Alder creek, bed, 1,016; grade	1,051
42.8	New Dundee, junction with New Dundee and Berlin line	1,051
47.5	Flag station	1,148
50.7	Grand Trunk Ry. crossing, G.T. Ry., rail, 1,062; (proposed grade, 1,068); H.E.P.C., grade	1,047
51.2	Junction with Galt, Preston and Hespeler Ry	1,050
51.5	Berlin, junction with Stratford and Humber Bay line	1,084

Miles from
New Dundee

HYDRO-ELECTRIC POWER COMMISSION—NEW DUNDEE AND BERLIN (*Projected*)

0.0	New Dundee, junction with Tillsonburg and Berlin line	1,051
4.9	Grade	1,207
8.1	Galt, Preston and Hespeler Ry. crossing	1,075
8.3	Grand Trunk Ry. crossing	1,075
8.4	Berlin Street Ry. crossing	1,067
8.7	Berlin, end of profile	1,084

Miles from
Bancroft

TORONTO, LINDSAY AND PEMEROKE RAILWAY (*Projected*)

0.0	Bancroft, junction with Canadian Northern Ry., Picton and Maynooth branch	1,072
7.5	Creek, bed, 1,137; grade	1,142
13.3	Summit	1,266
18.0	Depression	964
22.0	Alder creek, bed, 946; grade	1,025
24.8	Summit	1,158
27.0	Long lake, bed, 1,100; grade	1,118
31.4	York river, water, 927; grade	935
33.9	Madawaska river, water, 925; grade	938
41.3	Dam lake, water, 967; grade	983
44.3	Summit	1,013
53.0	Creek, bed, 680; grade	688
57.0	Depression	603
60.0	Summit	727
62.2	Golden Lake, Grand Trunk railway, Ottawa division, crossing	590
62.4	Grand Trunk Ry. Ambrose branch, Bonnechère bridge	569

Miles from
Whitney

WHITNEY AND OPEONGO RAILWAY

0.0	Whitney, junction with Grand Trunk Ry., Ottawa division, 278.9 miles from Alburgh junction	1,268.7
0.3	Junction switch	1,298
3.5	Mud river, bed, 1,230; rail	1,302
5.5	Smith lake, water, 1,352; rail	1,362
8.5	Little McAuley lake, water, 1,440; rail	1,452
9.2	Summit, ground, 1,485; rail	1,472
10.8	Lake, water, 1,374; rail	1,377
12.7	Sproule river, water, 1,326; rail	1,333
14.3	Loading ground, end of track	1,330
	Opeongo lake, low water	1,322

Miles from Cobourg	COBOURG AND PETERBOROUGH RAILWAY (Projected)	Elevation above mean sea level
0.0	Cobourg station ground	274
3.6	Creek, bed, 370; grade	376
7.2	Creek, bed, 661; grade	667
10.6	Summit	891
14.5	Rice lake, water, 613; grade	622
19.4	Creek, bed, 625; grade	657
21.0	Summit	714
27.5	Peterborough station ground	641
COBOURG, NORTHUMBERLAND AND PACIFIC RAILWAY (Projected)		
Miles from Cobourg		
0.0	Cobourg, lake Ontario, mean water (1871-1899)	216.0
3.6	Danforth road, lot 14, con. I, Hamilton tp.	374
6.8	Baltimore village, water in mill-pond, 523; grade	524
8.9	Road between Hamilton and Haldimand townships, 500 ft. north of Fenella P.O.	627
14.9	Summit, lot 15, con. VI, Haldimand, ground, 958; grade	940
18.8	Old mill-pond, lot 15, con. VIII, Haldimand, water, 717; grade	749
21.6	Burnley, proposed station	653
25.4	Mill-pond, lot 10, con. III, Percy, water, 574; grade	578
27.9	Warkworth village, water in pond, 468; proposed station	470
32.9	Meyersburg, proposed station, lot 4, con. II, Seymour	403
33.0	Brook, water (Trent river), 392; grade	400
36.3	Trent river, water, above Ranney falls, 480; below falls, 432; grade	465
38.1	Campbellford, proposed station, lot 12, con. VII, Seymour	489
44.3	Seymour and Rawdon town-line in lot 24, con. VIII, Rawdon	537
50.5	Central Ontario junction, with Canadian Pacific and Central On- tario railways	597
HAMILTON, WATERLOO AND GUELPH RAILWAY (Projected)		
Miles from Hamilton		
0.00	Hamilton station	311
1.88	Desjardins canal, water, 247; grade	345
1.90	Toronto, Hamilton and Buffalo Ry. crossing	345
2.30	Grand Trunk Ry., main line, Niagara Falls and Windsor, crossing	350
5.35	Rock Chapel station	694
7.36	Creek, bed, 764; grade	785
9.10	Summit	850
13.40	Creek, bed, 792; grade	800
15.40	Rockton station	834
19.70	Sheffield station	860
23.20	Summit	970
25.55	Grand Trunk Ry. cross. g.	862
25.56	Galt, junction with Grand Valley railway	862
HAMILTON RADIAL ELECTRIC RAILWAY		
Miles from Hamilton		
0.0	Hamilton, James and Gore streets	308
2.1	Grand Trunk Ry., main line, crossing	277
2.5	Grand Trunk Ry., Hamilton and Allandale branch, crossing	259
2.8	Switch	253
4.1	Beach road	258
5.9	Bay inlet, grade	250
8.7	Burlington canal, water, 247; grade	252

Miles from
Hamilton

HAMILTON RADIAL ELECTRIC RAILWAY

Elevation
above mean
sea level

11.0	Burlington, cor. Elizabeth and James streets	275
12.4	Creek, bed, 272; grade	283
14.3	Summit	297
15.8	Creek, bed, 288; grade	292
17.0	Bronte station ground	282
21.2	Oakville	268
24.7	Creek, bed, 253; grade	265

Miles from
Chippawa

NIAGARA FALLS PARK AND RIVER RAILWAY

0.0	Chippawa, Michigan Central R. R. crossing	570
0.0	Welland river, water, 567; rail	570
0.3	Chippawa station	572
1.5	Niagara Falls, Queen Victoria Park siding	566
2.6	" " Table Rock house	547
3.4	" " upper suspension bridge	529
4.8	" " Cantilever Bridge siding	557
6.4	Bowman ravine, bed, 563; rail	587
6.5	Summit	596
7.7	Siding, near Wintergreen Flat road crossing	581
8.3	Smeaton's ling.	570
10.3	Niagara Falls road crossing	537
10.6	St. David road crossing	427
10.9	Queenston, Queen St.	363
11.0	" " Dumfries St.	328
11.4	" " dock	259

Miles from
WaterfordTORONTO, HAMILTON AND BUFFALO RAILWAY—
MAIN LINE

0.00	Waterford station	761
0.30	Junction switch, with Michigan Central R. R., main line	760
0.50	Lake Erie and Northern Ry. crossing, L.E. & N. Ry., rail, 793; T. H. & B. Ry., rail	55
4.25	Vanessa station	85
7.69	Scotland station	80
9.70	Church station	821
10.28	Gravel-pit station, ground, 853; rail	829
12.05	Mount Pleasant station	790
17.16	West Brantford station	664
17.81	Grand river, water, 644; rail	666
17.90	Lake Erie and Northern Ry. crossing	666
18.02	Brantford station	655
19.43	Starch Works station	659
20.35	Bow Park station	659
21.50	Grand Trunk Ry., Buffalo and Goderich branch, crossing, G.T.Ry., rail, 699; T. H. & B. Ry., rail	724
21.63	Cainsville station	704
23.00	Fairchild creek, water, 636; rail	661
24.88	Wisner station	719
27.99	Jerseyville station	738
31.60	Summit station	785
32.19	Summit, rail	797
35.02	Mineral Springs station	579
38.47	Dundas station	350
39.72	Ranges station	331
41.02	Aberdeen station	326

Miles from Waterford	TORONTO, HAMILTON AND BUFFALO RAILWAY— MAIN LINE	Elevation above mean sea level
41.10	Hamilton and Dundas Ry. crossing, H. & D. Ry., rail, 308; T. H. & B. Ry., rail.....	325
41.76	West "Y" junction.....	306
42.06	Tunnel junction.....	299
42.58	Hunter Street tunnel, ground at centre, 363; rail.....	319
42.97	Hamilton station.....	328
43.66	Grand Trunk Ry., Hamilton and Port Dover branch, crossing.....	328
44.03	Hamilton, Wentworth Street station.....	330
46.27	Bartonville station.....	363
49.48	Stoney Creek station.....	434
51.62	Edgemont station.....	548
53.89	Vinemount station.....	650
57.91	Grassie station (summit).....	652
63.17	Smithville, junction with Dunnville branch.....	627
66.08	St. Ann station.....	609
68.86	Silverdale station.....	612
74.09	Fenwick station.....	620
76.60	Chantler, junction with Ridgeville spur.....	600
78.63	Ridgeville station.....	689
79.70	Gravel pit.....	807
79.10	Welland river, water, 563; rail.....	585
80.19	Junction switch.....	586
80.57	Welland, junction with Michigan Central R. R., main line.....	587

Miles from Smithville	TORONTO, HAMILTON AND BUFFALO RAILWAY— DUNNVILLE BRANCH	
0.0	Smithville, junction with main line.....	627
0.5	Twenty-mile creek, bed, 595; high water, 601; rail.....	618
2.7	Summit.....	632
5.2	Vaughan station.....	599
7.7	Port Davidson station.....	587
7.9	Welland river, water, 564; rail.....	583
9.4	Michigan Central R.R., main line, crossing.....	591
9.8	Grand Trunk Ry., Loop line, crossing.....	592
10.0	Diltz station.....	590
14.2	Grand Trunk Ry., Buffalo and Goderich branch, crossing.....	585
14.6	Welland Canal feeder, high water, 579; rail.....	586
14.9	Dunnville station.....	582

Projected Extension

16.2	Cranberry creek, bed, 571; rail.....	579
18.1	Broad creek, water, 574; high water, 580; rail.....	583
19.2	Port Maitland station.....	580

Miles from Buffalo	MICHIGAN CENTRAL RAILROAD—MAIN LINE	
0.00	Buffalo, Exchange St. station.....	583
24.38	Cantilever bridge, rail.....	587
24.46	Niagara Falls station.....	584
25.66	Victoria Park station.....	611
26.75	Falls View station.....	618
27.07	Montrose junction, with Niagara branch.....	614
28.12	Montrose station.....	597

Miles from
Buffalo

MICHIGAN CENTRAL RAILROAD—MAIN LINE

Elevation
above mean
sea level

29.82	Welland river, rail	581
37.73	Grand Trunk Ry., Welland branch, crossing	593
38.20	Welland, junction with Fort Erie branch and Toronto, Hamilton and Buffalo Ry.	587
38.49	Welland canal, water, 573; rail	587
42.41	Hewitt station	585
44.01	Forks creek, bed, 557; rail	578
47.54	Perry station	587
50.11	Montague station	585
55.76	Attercliffe station	590
63.09	Canfield, Grand Trunk Ry., Buffalo and Goderich branch, crossing	618
67.03	Summit	662
69.56	Cayuga station	640
70.39	Grand river, bed, 576; water, 582; rail	626
71.15	De Cew pond, bed, 599; rail	637
75.42	Dufferin station	685
79.48	Hagersville station, Grand Trunk Ry., Hamilton and Port Dover branch, crossing	737
85.05	Townsend station	739
87.30	Villa Nova	731
89.45	Nanticoke creek, bed, 715; water, 719; rail	749
92.23	Waterford, junction with Toronto, Hamilton and Buffalo railway	761
92.50	T. H. & B. Ry. switch	760
92.70	Lake Erie and Northern Ry. crossing, L.E. & N. Ry., rail, 793; M. C.R.R., rail	756
98.80	Windham station	814
102.93	La Salette, Grand Trunk Ry., Stratford and Port Dover branch, crossing	787
104.16	Hawtrey station	782
108.86	Otter creek, bed, 726; water, 728; rail	790
109.24	Cornell station	794
114.68	Tillsonburg station	803
114.97	Grand Trunk Ry., Tillsonburg branch, and Canadian Pacific, Ry., Port Burwell branch, crossing; G. T. Ry., rail, 782; C.P. Ry., rail, 781; M.C.R.R., rail	803
120.70	Brownsville station	793
125.94	Springfield	793
128.40	Aylmer	818
131.13	Kingsmill	796
132.88	Catfish creek, bed, 712; rail	763
135.48	Yarmouth station, Grand Trunk Ry., Loop line, crossing	769
139.13	St. Thomas, junction with Canadian Pacific Ry., Ingersoll branch	765
139.38	London and Port Stanley Ry. crossing	760
140.58	Kettle creek, water, 666; rail	756
143.36	St. Clair, junction with St. Clair branch	764
148.19	Shedden station	726
152.13	Iona	744
158.07	Dutton	721
164.60	West Lorne station	708
169.00	Rodney station	692
172.38	Taylor	718
174.97	Muirkirk	722
177.13	Highgate	737
182.78	Ridgetown	658
188.63	Mull	649
193.64	Fargo station, Pere Marquette R.R., Sarnia branch, crossing	638
196.02	Charing Cross station	628

Miles from Buffalo	MICHIGAN CENTRAL RAILROAD—MAIN LINE	Elevation above mean sea level
202.27	Buxton station	599
206.32	Fletcher "	596
213.25	Tilbury "	588
216.06	Big creek, water, 576; rail	590
219.86	Comber, junction with Leamington branch	605
224.85	Ruscomb station	605
228.78	Woodslee "	615
234.33	Essex, junction with Amherstburg branch	644
234.40	Windsor, Essex and Lake Shore Ry. crossing	643
238.86	Maidstone station	628
243.15	Pelton, Pere Marquette R.R., Buffalo division, crossing	628
248.92	Roundhouse station	599
250.13	Windsor station	581
	Detroit river at Windsor, mean water	575
Miles from Buffalo	MICHIGAN CENTRAL RAILROAD—FORT ERIE BRANCH	
0.00	Buffalo, Exchange St. station	583
4.50	International bridge, rail	591
5.49	Bridgeburg station	592
6.62	Victoria station	604
7.58	Niagara junction, with Niagara branch	606
12.64	Stevensville station	586
18.05	Brookfield "	608
22.78	Welland, junction with main line, 38.20 miles from Buffalo	587
Miles from Niagara Junc.	MICHIGAN CENTRAL RAILROAD—NIAGARA BRANCH	
0.00	Niagara junction, with Fort Erie branch	606
4.70	Black creek, bed, 565; rail	575
4.73	Black Creek station	575
10.52	Chippawa "	573
12.24	Montrose junction, with main line, 27.07 miles from Buffalo	614
12.55	Falls View station	618
13.63	Victoria Park station	611
14.83	Niagara Falls "	584
15.48	Niagara, St. Catharines and Toronto Ry. junction	580
16.60	Grand Trunk Ry., Allanburg branch, crossing	592
17.48	Stanford station	619
21.26	Queenston station	350
25.32	Paradise switch	309
26.38	John street	290
26.97	Queen street	288
27.57	Niagara-on-the-Lake station	251
	Lake Ontario, mean water (1871-1899)	245.8
Miles from St. Thomas	MICHIGAN CENTRAL RAILROAD—ST. CLAIR BRANCH	
0.00	St. Thomas station	765
4.24	St. Clair, junction with main line, 143.36 miles from Buffalo	764
5.40	Grand Trunk Ry., Loop line, crossing	745
9.35	Southwold station	747
12.26	Thames river, bed, 645; rail	721
13.54	Muncey station	721
19.27	Melbourne "	736

Miles from
St. ThomasMICHIGAN CENTRAL RAILROAD—ST. CLAIR
BRANCHElevation
above mean
sea level

22.29	Grand Trunk Ry., Niagara Falls and Windsor, crossing.....	742.8
24.50	Appin Road, Canadian Pacific Ry., Ontario and Quebec line, crossing.....	750
29.89	Walker station.....	732
34.79	East branch Sydenham river, bed, 655; rail.....	711
35.10	Grand Trunk Ry., Kingscourt branch, crossing, G. T. Ry., rail, 734; M. C. R. R., rail.....	711
35.28	Alvinston station.....	714
40.99	Inwood.....	689
42.30	Weidman.....	683
43.80	Glen Rae.....	682
44.98	Holmesdale.....	677
48.19	Oil City.....	662
50.17	Petrolia junction.....	661
50.42	Fox creek, bed, 648; rail.....	660
55.20	Chamberlain station.....	639
56.56	Brigden.....	635
57.16	Bear creek, bed, 589; rail.....	627
59.81	Kimball station.....	650
65.82	Courtright junction, with Pere Marquette R.R., Sarnia branch..	606.1
66.38	Courtright station.....	589

Miles from
ComberMICHIGAN CENTRAL RAILROAD—LEAMINGTON
BRANCH

0.00	Comber, junction with main line, 219.86 miles from Buffalo.....	605
2.26	Petit Mill station.....	595
3.31	Roslyn.....	610
5.40	Staples.....	613
7.12	Oakland station.....	629
8.79	Blytheswood station.....	635
10.57	Wigle.....	649
13.44	Pere Marquette R.R., Buffalo division, crossing.....	624
13.79	Leamington station.....	626
14.30	Windsor, Essex and Lake Shore Ry. crossing.....	624
15.91	Sea Cliff Park station.....	577
	Lake Erie, mean water (1871-1899).....	572.3

Miles from
EssexMICHIGAN CENTRAL RAILROAD—AMHERSTBURG
BRANCH

0.00	Essex, junction with main line, 234.33 miles from Buffalo.....	644
4.78	Edgar station.....	626
7.23	Pere Marquette R.R., Buffalo division, crossing.....	609
7.92	McGregor station.....	607
9.69	Canard river, bed, 576; rail.....	600
11.54	Auld station.....	601
12.67	Southwick station.....	605
15.73	Gordon station.....	582
16.88	Amherstburg station.....	593
	Detroit river at Amherstburg, mean water.....	573

Miles from
GaltLAKE ERIE AND NORTHERN RAILWAY
Under construction

0.0	Galt station.....	890
1.1	Grand river, high water, 860; rail.....	863
5.0	Grand river, high water, 825; rail.....	833

Miles from
GaltLAKE ERIE AND NORTHERN RAILWAY
(Under construction)Elevation
above mean
sea level

6.7	Glenmorris station.....	822
8.5	Grand river, high water, 785; rail.....	819
10.9	Grand Trunk Ry., old main line, crossing, G.T. Ry., rail, 802; L.E. & N. Ry., rail.....	779
13.0	Grand Trunk Ry., main line, crossing, G. T. Ry., rail, 820; L.E. & N. Ry., rail.....	795
13.3	Paris station.....	800
15.0	Grade.....	822
20.1	Brantford station.....	652
21.2	Grand Trunk Ry., Tillsonburg branch, crossing.....	666
21.6	Toronto, Hamilton and Buffalo Ry. crossing.....	666
21.7	Grand river, high water, 659; low water, 644; rail.....	666
29.7	Oakland creek, high water, 753; low water, 750; rail.....	703
36.5	Toronto, Hamilton and Buffalo Ry. crossing, T. H. & B. Ry., rail, 755; L. E. & N. Ry., rail.....	793
36.5	Michigan Central R.R., main line, crossing, M.C.R.R., rail, 756; L. E. & N. Ry., rail.....	793
37.1	Waterford station.....	800
42.5	Grand Trunk Ry., Loop Line, crossing, G.T. Ry., rail, 728; L. E. & N. Ry., rail.....	706
43.8	Simcoe station.....	695
44.6	Grand Trunk Ry., Stratford and Port Dover branch, crossing.....	679
50.0	Port Dover station.....	629

Miles from
Walkerville

PERE MARQUETTE RAILROAD—BUFFALO DIVISION

0.00	Walkerville station.....	591
3.00	Walkerville junction, with Canadian Pacific railway, Ontario and Quebec line.....	613.3
6.21	Pelton, Michigan Central R. R., main line, and Windsor, Essex and Lake Shore Ry., crossing.....	628
7.73	Oldcastle station.....	627
10.72	Paquette ".....	616
13.20	McGregor, junction with Michigan Central R.R., Amherstburg branch.....	609
15.20	Canard river, bed, 597; rail.....	608
15.31	New Canaan station.....	608
18.39	Marshfield ".....	608
21.06	Harrow station.....	626
25.60	West branch Cedar creek, bed, 573; rail.....	595
25.92	Arner station.....	602
30.43	Kingsville station.....	608
31.25	Windsor, Essex and Lake Shore Ry. crossing.....	624
34.17	Ruthven station.....	682
35.95	Summit, ground, 734; rail.....	707
38.00	Leamington, junction with Michigan Central R.R., Leamington branch.....	624
46.00	Wheatley station.....	609
50.60	Renwick ".....	629
52.88	Coatsworth ".....	628
57.61	Glenwood ".....	628
61.00	Merlin ".....	634
64.59	Buxton ".....	644
66.44	Sandison station.....	648
70.76	Cedar Springs, junction with Chatham, Wallaceburg and Lake Erie railway.....	650

Miles from
Walkerville

PERE MARQUETTE RAILROAD—BUFFALO DIVISION

Elevation
above mean
sea level

73.90	Blenheim junction, with Sarnia branch.....	674
74.70	Blenheim station.....	672
78.27	Wilkie station.....	664
84.05	Ridgetown station.....	670
89.60	Highgate station.....	739
89.70	Summit.....	710
92.87	Muirkirk station.....	725
94.70	Taylor station.....	715
98.81	Rodney station.....	688
100.10	Kerr siding.....	710
102.41	West Lorne station.....	712
109.09	Dutton station.....	725
112.70	Summit.....	782
114.75	Iona station.....	745
118.70	Shedden station.....	724
123.12	Middlemarch station.....	737
125.12	Talbot station.....	757
126.30	Kettle creek, water, approx., 653; rail.....	758
127.02	St. Thomas, junction with London and Port Stanley railway....	758

Miles from
Rondeau

PERE MARQUETTE RAILROAD—SARNIA BRANCH

	Lake Erie, mean water (1871-1899).....	572.3
0.0	Rondeau station.....	577
4.0	Shrewsbury ".....	586
7.6	Summit, ground, 1,000 ft. north, 698; rail.....	683
7.8	Blenheim junction, with Buffalo division.....	674
11.4	Fargo, junction with Michigan Central R. R., main line.....	638
14.8	Richardson station.....	690
17.7	Chatham junction, with Grand Trunk Ry., Niagara Falls and Windsor.....	598.1
18.0	Canadian Pacific Ry., O. & Q. line, crossing.....	596.6
18.7	Chatham, Canadian Pacific station.....	594
19.8	Thames river, high water, 589; low water, 574; rail.....	596
24.5	Darrell station.....	599.1
26.1	Eberts ".....	598.7
29.4	Ennett ".....	598.7
31.9	Dresden ".....	601.4
36.6	Tupperville station.....	591.6
42.5	Wallaceburg station.....	579.9
42.9	Chatham, Wallaceburg and Lake Erie Ry. crossing.....	583.1
43.2	Sydenham river, water, 576; rail.....	585
47.9	Whitebread station.....	585.0
50.2	Bellevue station.....	582.1
50.7	Port Lambton station.....	583.0
54.7	Sombra ".....	587.6
56.8	Clay creek, water, 580; rail.....	588
58.7	Watson station.....	602.2
62.0	Courtright junction, with Michigan Central R.R., St. Clair division.....	606.1
62.5	Courtright station.....	601.1
63.7	Mooretown ".....	603.8
65.6	Summit.....	638
67.4	Corunna station.....	628.7
69.2	Wawanosh station (closed).....	601
72.8	Sarnia station.....	600

Miles from Port Stanley	PERE MARQUETTE RAILROAD—LONDON AND PORT STANLEY RAILWAY*	Elevation above mean sea level
0-00	Port Stanley, wharf, 577; station.....	580
4-12	White station.....	723
8-15	Michigan Central R. R., main line, crossing.....	760
8-43	St. Thomas, junction with Buffalo division.....	758
8-68	Grand Trunk Ry., Loop line, crossing.....	755
9-70	Kettle creek, bed, 681; rail.....	747
10-41	Yarmouth station.....	782
14-16	Glanworth station.....	869
16-18	Summit, rail.....	914
18-52	Westminster station.....	874
23-05	Thames river, bed, 767; rail.....	799
23-48	London, Grand Trunk station.....	805.7
23-70	" Michigan Central station.....	806
Miles from Wallaceburg	CHATHAM, WALLACEBURG AND LAKE ERIE RAILWAY	
0-00	Wallaceburg station.....	584
0-40	Pere Marquette R.R., Sarnia branch, crossing.....	583.1
3-29	Marden station.....	580
5-04	Electric station.....	580
5-92	Stevens station.....	584
6-79	Mitchell Bay station.....	585
8-54	Dover Centre station.....	590
10-29	Stringer station.....	591
12-92	Burke station.....	594
14-67	Paincourt junction.....	591
16-21	Bear Line station.....	593
19-34	Winter Line (Paincourt) station.....	596
15-78	Paxton station.....	593
17-20	Thames river, floor of bridge.....	596
18-44	Chatham station, corner of King and Third streets.....	595
18-94	Canadian Pacific Ry., William St. crossing, 594; Raleigh St. crossing.....	591
19-34	Grand Trunk Ry., main line, Niagara Falls and Windsor, crossing.....	591
20-30	Huff station.....	588
22-00	Blakeley station.....	599
25-00	Michigan Central R.R., main line, crossing.....	632
25-38	Charing Cross station.....	634
28-21	Cedar Springs, Pere Marquette R.R., Buffalo division, crossing ..	659
30-37	Cedar Springs Village station.....	681
31-75	Lake Erie station.....	592
32-85	Erie Beach station.....	578
Miles from Windsor	WINDSOR, ESSEX AND LAKE SHORE RAILWAY	
0-0	Windsor, Howard avenue.....	602
1-2	Lake Shore, junction with Canadian Pacific Ry.	616
5-5	Pelton, Pere Marquette R.R., Buffalo division, crossing.....	628
9-9	Maidstone Cross, Talbot road.....	625
14-0	Essex, Michigan Central R.R., main line, crossing.....	643
19-3	Cottam, Belle River road.....	649
25-8	Kingsville, cor. Spence and Main streets.....	623
26-5	Pere Marquette R.R., Buffalo division, crossing.....	624
31-5	Summit.....	736
33-1	Michigan Central R.R., Leamington branch, crossing.....	624
33-4	Leamington station.....	617

*The London and Port Stanley R. has been leased to the Ontario Hydro-Electric Power Commission and will, later, be operated by the H.E.P. Commission.

Miles from
Baysville

BRACEBRIDGE AND TRADING LAKE RAILWAY

Elevation
above mean
sea level

	Lake of Bays, water.....	1,047
0.0	Baysville station.....	1,056
2.5	Muskoka river, water, 1,031; grade.....	1,045
6.7	Summit.....	1,069
8.6	McKay lake, water.....	1,002
13.3	Stream, bed, 848; grade.....	872
15.4	Bracebridge, junction with Grand Trunk Ry., Toronto and North Bay line.....	812.3

Miles from
M. C. Junc.

MACAULAY CENTRAL RAILWAY

0.0	Macauley Central junction, with Grand Trunk Ry., Ottawa division, 267.6 miles from Alburgh junction.....	1,053
0.2	Madawaska river, high water, 1,042; low water, 1,037; rail.....	1,048
0.7	Macauley brook " " 1,053; " " 1,052; " ".....	1,063
2.7	Major brook, bed, 1,112; rail.....	1,118
4.5	End of profile.....	1,122

Miles from
L. Nipissing

NIPISSING AND NOSBONSING RAILWAY

0.0	Lake Nipissing, low water, 640.5; high water.....	647.8
	Booth, junction with Grand Trunk Ry., Toronto and North Bay.....	742.6
5.5	Lake Nosbonsing, water.....	776

Miles from
North Bay

TIMISKAMING AND NORTHERN ONTARIO RAILWAY—
MAIN LINE

0.0	North Bay, junction with Canadian Pacific Ry., main line, and Grand Trunk Ry., Toronto and North Bay.....	662
0.5	Canadian Northern railway, main line, crossing.....	675
3.7	Trout Mills station.....	746
8.7	Feronia station.....	908
13.5	Widdifield station.....	1,055
18.1	Mulock station.....	1,222
20.2	Summit.....	1,263
23.6	Big Antoine creek, water (Sept., 1909), 1,206; rail.....	1,236
25.9	Sturgeon lake, water.....	1,152
27.3	Tomiko station.....	1,167
28.0	Moose lake, water.....	1,163
30.7	Brûlé lake, water.....	1,120
32.1	Jocko station.....	1,045
32.3	Jocko lake, water.....	1,009
33.9	Riddle station.....	1,028
37.7	Osborne station.....	1,040
39.8	Diver station.....	1,053
41.6	Otter station.....	1,028
46.0	Ruth lake, water.....	987
47.1	Bushnell station.....	996
47.9	Bush lake, water.....	983
48.4	Kenney station.....	954
49.4	Boyce lake, water.....	972
55.4	Lower Redwater lake, water.....	1,008
55.5	Redwater station.....	1,015
56.0	Upper Redwater lake, water.....	1,008

Miles from North Bay	TIMISKAMING AND NORTHERN ONTARIO RAILWAY— MAIN LINE	Elevation above mean sea level
63.4	Doherty station.....	1,063
65.8	Lower Twin lake, water.....	1,052
71.6	Timagami lake, water.....	965
71.8	Timagami station.....	989
74.4	Summit.....	1,016
75.6	Net lake, water (Sept. 24, 1909), 968; rail.....	980
78.5	Owaissa station.....	997
82.7	Rib lake, water.....	1,028
82.9	Rib Lake station.....	1,037
88.9	Johnny lake, water.....	1,043
89.4	Johnson station.....	1,066
94.0	Bay lake, Montreal river (Sept. 20, 1913), water.....	902
94.1	Latchford station.....	919.3
97.7	South Gillies station.....	934
98.5	Gillies station.....	944.8
99.3	Mud lake, water.....	946
99.4	Cassidy station.....	956.1
101.7	Summit.....	1,006
101.9	Kerr Lake junction, with Kerr Lake branch ..	985
102.4	Long lake, water.....	959
102.8	Cobalt station.....	967.9
105.7	North Cobalt station.....	840.5
107.4	Haileybury station.....	763.6
112.6	New Liskeard station.....	637.4
118.3	Uno Park station.....	631
119.2	Wabi creek, water, 588; rail ..	628
124.8	Thornloe station.....	722
128.6	Earlton, junction with Elk Lake branch.....	816
134.9	Heaslip station.....	728
138.0	Blanche river, low water, 592; high water, 614; rail ..	689
138.4	Englehart station.....	680
139.1	Englehart junction, with Charlton branch.....	662
140.8	Chamberlain station.....	667
143.7	Wabiwawa station.....	710
145.5	Blanche river, low water, 676; high water, 692; rail ..	769
146.0	Krugerdorf station.....	775
151.0	Mindoka station.....	882
159.7	Dane station.....	1,032
164.7	Swastika station.....	1,007
167.5	Blanche river, low water, 996; rail ..	1,008
168.2	Kenogami Lake station.....	1,009
174.2	Sesekinika lake, low water.....	1,012
175.6	Sesekinika station.....	1,022
177.7	Summit.....	1,044
178.8	White Clay river, water (Oct. 13, 1913), 1,018; rail.....	1,026
182.5	Bourke station.....	1,034
195.0	Ramore station.....	945
196.8	Wild Goose creek, water (Oct. 27, 1913), 846; rail.....	1,017
203.0	Belleek station.....	878
204.9	Matheson station.....	861
205.2	Black river, above chutes, high water, 812; low water.....	807
	“ “ below chutes, high water, 800; low water ..	792
208.1	Watabeag creek, high water, 793; low water, 786; rail ..	843
208.8	Watabeag station.....	872
212.6	Homer station.....	905
214.8	Nushka station.....	922
217.5	Driftwood river, high water, 843; low water, 840; rail.....	914

ONTARIO—SUNDRY RAILWAYS

353

Miles from North Bay	TIMISKAMING AND NORTHERN ONTARIO RAILWAY— MAIN LINE	Elevation above mean sea level
217.8	Monteith station.....	922
221.7	Kelso station.....	904
224.4	Porquis, junction with Porcupine branch.....	946
228.7	Nellie Lake station.....	1,008
236.8	Holland station.....	916
247.5	Nahma station.....	902
252.2	Cochrane, junction with National Transcontinental Ry., 1,025.1 miles from Moncton.....	911
Miles from Kerr Lake Junction	TIMISKAMING AND NORTHERN ONTARIO RAILWAY— KERR LAKE BRANCH	
0.0	Kerr Lake junction, with main line, 101.9 miles from North Bay.....	985
0.8	Cobalt station.....	968
1.7	Summit.....	1,043
2.6	Giroux lake, water.....	963
	Kerr lake, water.....	995
4.8	Kerr Lake station.....	1,009
Miles from Earlton	TIMISKAMING AND NORTHERN ONTARIO RAILWAY— ELK LAKE BRANCH	
0.0	Earlton, junction with main line, 128.6 miles from North Bay....	816
5.0	McCool station.....	839
10.7	Kenabeek station.....	926
14.7	Osseo station.....	955
17.7	Mountain Chutes station.....	951
22.0	Wabun station.....	946
22.5	Montreal river, water.....	918
25.0	Beacon station.....	941
28.5	Elk Lake station.....	970
	Elk lake, water (Feb. 5, 1914).....	918
Miles from Englehart Junc.	TIMISKAMING AND NORTHERN ONTARIO RAILWAY— CHARLTON BRANCH	
0.0	Englehart junction, with main line, 139.1 miles from North Bay..	662
2.0	Summit.....	934
4.2	Dack station.....	922
7.2	Charlton station.....	876
	Long lake, low water.....	860
Miles from Iroquois Falls	TIMISKAMING AND NORTHERN ONTARIO RAILWAY— PORCUPINE BRANCH	
0.0	Iroquois Falls station.....	906
2.9	Onagon station.....	914
7.5	Porquis, junction with main line, 224.4 miles from North Bay....	946
8.0	Frederick House lake, water.....	896
9.7	Kilburn station.....	1,012
16.2	Barber Bay station.....	907
17.2	Connaugh station.....	917
24.1	Keys station.....	967
28.3	Three Nations station.....	959
31.0	Porcupine station.....	947
31.1	Summit.....	1,037
33.6	Porcupine lake, water.....	915

Miles from Iroquois Falls **TIMISKAMING AND NORTHERN ONTARIO RAILWAY—
PORCUPINE BRANCH** Elevation
above mean sea level

33.7	South Porcupine station.....	923
35.2	Dome junction.....	972
38.6	Schumacher station.....	1,035
40.1	Timmins station.....	1,030
	Perth lake, water.....	1,024
	Perth lake, water.....	1,008

Miles from Bruce Mines **BRUCE MINES AND ALGOMA RAILWAY**

0.0	Bruce Mines, lake Huron, water.....	581.0
1.7	Canadian Pacific Ry., Sault Ste. Marie branch, crossing.....	681
2.2	Summit, ground, 709; rail.....	704
6.0	Rydal Bank station.....	645
6.1	Ottertail lake, water.....	637
8.9	Thessalon river, water, 638; rail.....	657
11.0	Gordon Lake station.....	647
11.0	Gordon lake, water.....	638
12.1	Summit, ground, 703; rail.....	688
13.5	Thessalon river, water, 640; rail.....	658
15.0	Rock lake, water.....	644
15.6	Thessalon river, water, 644; rail.....	656
16.6	Rock Lake, mill.....	652

Miles from Sudbury **ALGOMA EASTERN RAILWAY**

0.0	Sudbury, junction with Canadian Pacific Ry., main line, 439.2 miles from Montreal.....	857
1.4	Canadian Pacific Ry. crossing.....	910
1.0	Canadian Northern Ry. junction.....	863
3.2	Clarabel junction.....	936
3.9	Elsie junction.....	976
4.2	Nickelton station.....	975
4.9	Purol Lake siding.....	975
7.9	Hilltop siding (summit).....	997
9.1	North Star siding.....	972
11.3	Creighton station.....	991
12.7	Gertrude station.....	986
18.0	Vermilion river, high water, 802; low water, 800; rail.....	833
18.1	Vermilion station.....	833
21.1	Summit.....	966
22.4	Crean Hill station.....	924
23.9	Mond Mine spur.....	922
24.4	Mond station.....	938
27.2	Stone station.....	873
28.6	Worthington Road station.....	803
31.7	Drury station.....	721
32.3	Turbine station.....	721
36.7	Nairn station.....	687
42.8	Spanish river, high water, 658; low water, 647; rail.....	674
43.9	O'Leary station.....	676
47.6	Espanola junction, with Canadian Pacific Ry., Sault Ste. Marie branch.....	685
47.8	Spanish river, high water, 632; low water, 647; rail.....	666
48.4	Espanola station.....	675
53.2	Anderson station.....	679

ONTARIO—SUNDRY RAILWAYS

355

Miles from
Sudbury

ALGOMA EASTERN RAILWAY

Elevation
above mean
sea level

54.8	Loon Lake ballast-pit spur	633
55.5	Merritt station.....	630
55.7	Loon lake, high water, 725; low water.....	724
57.7	Raven lake, high water, 724; low water.....	716
59.9	Summit.....	757
60.0	Fox lake, water.....	724
61.7	Charlton lake, low water.....	633
63.5	Frood lake, high water, 633; low water.....	630
66.2	White station.....	598
72.9	McGregor Bay station.....	592
79.8	Cloche station.....	625
84.6	Turner station.....	593
85.5	Little Current station.....	615

Miles from
Sault Ste.
Marie

ALGOMA CENTRAL AND HUDSON BAY RAILWAY— MAIN LINE

0.0	Sault Ste. Marie station.....	590
1.0	Steelton station.....	619
5.2	Sault pit siding.....	819
7.5	Odena station.....	932
9.3	Granite station.....	1,022
13.3	Heyden ".....	1,082
14.4	Gilbert ".....	1,079
15.8	Island Lake station.....	1,084
17.7	Summit, highest point between Sault and Goulais.....	1,164
18.9	Bellevue station.....	1,142
23.9	Northfield ".....	1,081
28.1	Glendale ".....	832
29.9	Goulais ".....	769
30.3	Goulais river, high water, 766; low water, 759; rail.....	779
30.9	Searchmont station.....	781
31.9	Siding.....	842
33.0	Siding.....	914
35.1	Wabos station.....	945
38.4	Spruce Camp siding.....	1,077
39.4	Superior junction.....	1,099
41.0	Achigan station.....	1,114
41.9	Pine Camp siding.....	1,122
42.9	Achigan lake, high water, 1,109; low water.....	1,195
44.9	Bucyrus station.....	1,145
47.0	Summit lake, water, 1,223; rail.....	1,229
47.3	Ogidaki station (summit).....	1,228
50.9	South branch Chippawa river, high water, 1,024; low water, 1,018; rail.....	1,029
51.5	Chippawa station.....	1,032
54.0	Siding.....	1,094
55.4	Mashkode station.....	1,043
56.6	Trout Lake station.....	1,128
57.0	Trout lake, ice.....	1,118
60.0	Alva station.....	1,271
61.5	Pine lake, water, 1,376; rail.....	1,388
63.1	Boulder lake, water, 1,425; rail.....	1,431
63.7	McKatina station (summit).....	1,454
68.0	Panpis ".....	1,275
69.8	North branch Chippawa river, high water, 1,189; low water, 1,182; rail.....	1,238

Miles from
Sault Ste.
Marie

ALGOMA CENTRAL AND HUDSON BAY RAILWAY—
MAIN LINE

Elevation
above mean
sea level

70.6	Spruce station.....	1,325
72.1	Summit station (summit)....	1,426
75.0	Mongoose lake, water, 1,234; rail.....	1,243
75.4	Mongoose station.....	1,243
79.1	Batchewana ".....	1,022
79.7	Batchewana river, high water, 1,009; low water, 1,002; rail.....	1,033
84.9	Bay Island lake, water, 1,386; rail.....	1,397
84.9	Rand station.....	1,398
85.7	Summit.....	1,429
88.0	Regent station.....	1,340
91.7	Montreal river, water, 1,197; rail.....	1,286
94.8	Montreal station.....	1,511
96.1	Summit.....	1,591
96.1	Fraser station.....	1,461
111.0	Depression.....	928
111.7	Agawa river, high water, 920; low water, 916; rail.....	935
113.3	Canyon station.....	940
119.9	Agawa river, high water, 1,025; low water, 1,020; rail.....	1,037
130.3	Agawa station.....	1,113
137.6	Sand lake, water 1,222; rail.....	1,236
140.1	Summit.....	1,266
140.2	Tabor station.....	1,263
149.2	Perry station.....	991
152.0	Michipicoten river, high water, 910; low water, 906; rail.....	926
156.0	Limer station.....	1,061
163.8	Summit.....	1,136
164.2	Hawk, junction with Michipicoten branch.....	1,044
166.0	Pakorney lake, water 1,160; rail.....	1,166
172.5	Alden station.....	1,175
177.2	Goudreau station.....	1,213
178.5	Summit.....	1,232
187.7	Wanda station.....	1,172
191.0	Hobon lake, high water, 1,200; low water.....	1,196
194.5	Franz, Canadian Pacific Ry., main line, crossing, 695.6 miles from Montreal.....	1,219
200.7	Scully station.....	1,214
200.9	Lake, water (Jan. 12, 1912).....	1,194
207.2	Hilda station.....	1,146
209.0	Oba lake, high water, 1,132; low water.....	1,128
215.0	Tatnall station.....	1,140
220.9	Price ".....	1,177
227.8	Dana ".....	1,105
232.9	Akron ".....	1,083
238.6	Langdon ".....	1,104
244.9	Oba station.....	1,072
247.5	Albany branch, Oba river, high water, 1,056; low water, 1,051; rail.....	1,061
248.5	Summit.....	1,103
252.4	Norris station.....	1,039
257.6	Kennedy station.....	1,027
265.3	Hale ".....	1,042
272.6	Horsey ".....	926
280.1	Coppell ".....	892
287.4	Stavart ".....	834
291.8	Mattawishkwia river, high water, 776; low water, 771; rail.....	803
295.3	Hearst, junction with National Transcontinental railway, 1,157.8 miles from Moncton.....	807

Miles from
Michipicoten

 ALGOMA CENTRAL AND HUDSON BAY RAILWAY—
MICHIPICOTEN BRANCH

 Elevation
above mean
sea level

0.0	Michipicoten, top of ore dock	653
1.2	Brient station.....	759
4.1	Fremblay station (summit).....	983
6.5	Magpie river, water, 847; rail	872
7.9	Wawa station.....	960
9.2	Soulier lake, water	846
9.8	Otter lake, water.....	1,026
10.0	Helen junction, with Helen Mine spur.....	1,120
10.0	Moon lake, water	1,100
10.8	Sayres lake, water.....	1,225
11.5	Boyer lake, water.....	1,253
11.9	Helen Mine station.....	1,259
17.1	Magpie junction, with Magpie Mine spur.....	1,055
23.5	Magpie river, low water, 996; rail.....	1,007
26.4	Magpie Mine station.....	1,282
19.3	Josephine junction.....	1,252
26.0	Hawk, junction with main line, 164.2 miles from Sault Ste. Marie.....	1,044

 Miles from
Nipigon Bay

NIPIGON RAILWAY (Projected)

0.00	Lake Superior, Nipigon bay, water.....	602
2.05	Nipigon river, water, 604; grade.....	612
2.38	Grade.....	627
3.11	Spur to Nipigon station.....	663
	<u>Nipigon station.....</u>	<u>682</u>
12.75	Fraser creek, bed, 610; grade.....	667
16.87	" " bed, 853; grade.....	875
22.05	" " bed, 982; grade.....	992
25.90	Summit.....	1,080
30.72	Lake Nipigon, high water, 852; rail	860

Miles from
The Pas

HUDSON BAY RAILWAY

Elevation
above mean
sea level

0.0	The Pas station.....	879.7
1.0	Saskatchewan river, high water, 863.8; low water, 842.2; rail....	879.6
7.6	Siding No. 1.....	864
13.2	Siding No. 2.....	879
16.0	Clearwater or Atikameg lake, water.....	855
18.5	Grade (summit).....	894
21.2	Siding No. 3.....	865
29.7	Siding No. 4.....	860
37.2	Siding No. 5.....	854
41.5	Cormorant Lake narrows, high water, 848; water, 842; rail.....	855
45.0	Siding No. 6.....	861
54.0	Pickrel creek, water, 889; rail.....	899
54.3	Siding No. 7.....	906
59.5	Grade (summit).....	962
61.9	Siding No. 8.....	936
65.0	Limestone lake, water.....	873
69.8	Limestone river, water, 866; rail.....	874
70.2	Siding No. 9.....	872
79.0	Siding No. 10.....	915
81.1	Summit, rail.....	931
86.1	Siding No. 11.....	879
86.1	Woody lake, water.....	867
93.1	Siding No. 12.....	859
100.0	Creek, tributary of Limestone river, water.....	820
101.2	Siding No. 13.....	851
107.1	Siding No. 14.....	864
114.2	Siding No. 15.....	771
116.2	Woody creek, water, 740; rail.....	759
120.0	Kiski lake, water.....	740
121.8	Siding No. 16.....	771
129.5	Siding No. 17.....	776
130.0	Setting lake, water.....	739
135.5	Siding No. 18.....	763
138.0	Goose lakes, water.....	738
141.9	Siding No. 19.....	742
145.0	Summit, rail.....	771
145.0	Halfway lake, water.....	729
148.7	Siding No. 20.....	747
158.2	Siding No. 21.....	722
166.2	Siding No. 22.....	749
173.0	Siding No. 23.....	675
178.1	Siding No. 24.....	651
180.5	Depression, rail.....	627
184.5	Siding No. 25.....	675
185.0	Thicket portage, rail.....	673
185.0	Wintering lake, water.....	595
192.1	Siding No. 26.....	657
200.3	Siding No. 27.....	690
201.3	Grade.....	692
204.7	Lake Tremaine narrows, water, 634; rail.....	660
207.6	Summit, rail.....	687
212.2	Siding No. 28.....	638
213.9	Pikwitenay river, water, 599; rail.....	624
221.0	Grade.....	695
226.1	Armstrong lake, water, 618; rail.....	634
230.2	Grade.....	695
235.5	Armstrong river, water, 615; rail.....	639

Miles from
The Pas

HUDSON BAY RAILWAY

Elevation
above mean
sea level

236.6	Siding.....	645
239.5	Grade.....	660
241.5	Nelson river, Manitou rapids, high water, 593; low water, 587; rail.....	647
247.6	Siding.....	705
251.4	Summit, rail.....	739
254.8	Siding.....	704
255.9	Malty river, high water, 702; low water, 700; rail.....	706
257.9	Summit, rail.....	743
259.6	Siding.....	727
268.1	Ripple river, high water, 635; low water, 634; rail.....	644
269.0	Siding.....	655
272.6	Grade.....	657
274.6	Landing river, high water, 621; low water, 619; rail.....	632
275.1	Grade.....	643
276.4	Siding.....	635
279.1	Landing river, high water, 585; low water, 581; rail.....	607
285.7	Grade.....	636
319.3	Kettle river, water, 440; rail.....	468
328.4	Grade.....	519
374.4	Angling river, water, 259; rail.....	294
375.1	Grade.....	307
400.7	Seal river, water, 180; rail.....	194
401.5	Grade.....	192
403.7	Seal river, water, 171; rail.....	180
404.2	Grade.....	182
407.7	Seal river, rail.....	167
408.4	Grade.....	167
418.9	Port Nelson, high water.....	6

HUDSON BAY RAILWAY—TRIAL LINE TO
FORT CHURCHILL (Abandoned)Miles from
The Pas

100	Creek, tributary of Limestone river.....	820
106	Limestone river, water.....	800
111	Grade.....	809
124	Grass river, water.....	743
124	Grade.....	769
132	Goose river, high water, 654; low water.....	652
137	Grade.....	689
138	Setting river, high water, 655; low water.....	653
142	Grade.....	691
150	Grade.....	662
152	Grade.....	719
155	Setting lake, water.....	653
158	Grade.....	714
159	Grass river, head of Lynx falls.....	640
159	Grass river, foot.....	597
165	Grass river, foot of Sandy falls.....	555
170	Grass river, water.....	526
183	Paint lake, water.....	526
184	Grade.....	589
185	Wintering lake, water.....	497
190	Grade.....	558
197	Wintering stream, water.....	497
202	Partridge-crop lake, water.....	497
212	Grade.....	550
220	Natawaonan lake, water.....	497

Miles from
The PasHUDSON BAY RAILWAY—TRIAL LINE TO
FORT CHURCHILL (*Abandoned*)Elevation
above mean
sea level

226	Bald Eagle lake, water	488
230	Teal lake, water	485
235	Grass river, water	488
240	Stinking lake, water	485
243	Grade	522
246	Grass river, below falls, water	459
254	Burntwood river, water	446
255	Grade	556
258	Assean lake, water	484
263	Grade	574
266	Creek, water	491
272	Grade	568
275	Depression	494
290	Big lake, water	671
290	Little Cross lake, water	683
293	Summit	738
298	Depression, inlet of Clearwater lake, grade	614
299	Clearwater lake, water	603
305	Grade	707
321	Elbow lake, expansion of Little Churchill river, water	562
330	Summit	649
330	Little Churchill river, water	534
345	Little Churchill river, water	509
350	Little Churchill river, water	500
354	Pine river, water	539
375	Summit	739
384	Little Deer river, water	584
386	Grade	634
390	Deer river, high water, 547; low water	535
395	Grade	649
442	Dog river, water	139
449	Deer river, high water, 64; low water	51
449	Grade	86
478	Fort Churchill, high water	0

HUDSON BAY RAILWAY—SUNDRY ELEVATIONS

Nelson river, mouth of, Kisematchisk river (35 miles from Nelson)	72
" Kettle rapids, at crossing of location line	349
" Kettle rapids, at head	362
" head of First rapids below Split lake	531
" foot of First rapids below Split lake	521
Split lake, narrows	555
Split lake, above narrows	556

GREAT NORTHERN RAILWAY—PORTAGE
LA PRAIRIE BRANCHMiles from
Neché

0-0	Neché station, Minn	833
0-9	Manitoba-Midland Railway junction	839
1-8	International boundary	832
1-9	West Gretna station, Man	830-7
9-6	Bergmann station	820-1
17-1	Canadian Pacific Ry., La Rivière branch, crossing	834-9
17-3	Plum Coulée station	854-8
24-5	Kronsgart station	845
32-1	Roland station	859

Miles from Neché	GREAT NORTHERN RAILWAY—PORTAGE LA PRAIRIE BRANCH	Elevation above mean sea level
32.4	Canadian Northern railway, Miami branch, crossing.....	862
36.3	Graham station.....	865
42.2	Carman station.....	870
43.2	Canadian Northern railway, Winnipeg and Virden, crossing.....	883
50.1	Bradburn station.....	895
55.0	Canadian Pacific Ry., Southwestern branch, crossing.....	906
57.6	Magnus station.....	910
63.3	Highest point between Neche and Portage la Prairie.....	922
64.6	Layland station.....	918
70.6	Dunn station.....	857
74.4	Aseiniboine river, high water.....	857
78.1	Grand Trunk Pacific Railway junction.....	858
78.2	Portage la Prairie, Grand Trunk Pacific Ry. station.....	857.2
Miles from Walhalla	GREAT NORTHERN RAILWAY—MORDEN BRANCH	
0.0	Walhalla station, Minn.....	962
5.7	International boundary.....	951
7.0	Haskett station, Man.....	966
13.9	Glencross station.....	981
19.7	Canadian Pacific Railway, La Rivière branch, crossing.....	980.2
20.2	Morden station.....	985
Miles from St. John	GREAT NORTHERN RAILWAY—BRANDON BRANCH	
0.0	St. John station, Minn.....	1,944
4.2	International boundary.....	1,889
7.9	Bannerman station, Man.....	1,890
11.0	Whitemud river, bed, 1,858; rail.....	1,865
12.1	Canadian Northern railway, Wakopa branch, crossing.....	1,855
16.1	Desford station.....	1,812
20.0	Pembina river, bed, 1,733; rail.....	1,762
20.5	Fairburn station.....	1,761
25.4	Boissevain station.....	1,678
25.7	Canadian Pacific Ry., La Rivière branch, crossing.....	1,676.6
26.0	Canadian Pacific Ry., Boissevain branch, crossing.....	1,677
31.8	Alcester station.....	1,637
38.0	Minto station.....	1,601
38.2	Canadian Northern railway, Winnipeg and Virden, crossing.....	1,598
42.8	Heaslip station.....	1,531
47.6	Bunclody station.....	1,386
49.0	Souris river, water, 1,316; rail.....	1,377
50.8	Beverley station.....	1,454
53.6	Canadian Pacific Ry., Southwestern branch, crossing.....	1,502
55.0	Hebron station.....	1,525
58.8	Hayfield station.....	1,438
61.0	Souris river, bed, 1,348; rail.....	1,360
63.3	McKelvie station.....	1,380
66.9	Roseland station.....	1,340
69.6	Canadian Northern railway, Portage la Prairie and Regina, cross- ing.....	1,304
73.6	Brandon station.....	1,219

Miles from Edmonton	EDMONTON, DUNVEGAN AND BRITISH COLUMBIA RAILWAY	Elevation above mean sea level
0.0	Edmonton, Canadian Northern Ry. station.....	2,185.4
4.9	Grand Trunk Pacific Ry. junction.....	2,221
5.9	Radial Park station.....	2,236
9.7	Campbell station.....	2,261
15.0	Sturgeon river, water, 2,125; rail.....	2,142
17.9	Carbondale, junction with Alberta and Great Waterways railway	2,249
18.4	Alberta and Great Waterways Ry. switch.....	2,252
22.9	Morinville station.....	2,300
31.4	Mearns station.....	2,364
31.8	Summit.....	2,371
39.1	Bushby station.....	2,368
47.7	Picardville station.....	2,278
56.1	Westlock station.....	2,126
63.7	Debney station.....	2,081
69.5	Dapp station.....	2,017
77.8	Bear creek, bed, 1,979; rail.....	2,010
78.1	Jarvie station.....	2,008
81.5	Creek, bed, 1,977; rail.....	2,013
86.4	Fawcett station.....	2,046
90.6	Creek, bed, 2,037; rail.....	2,058
91.1	Lenzie station.....	2,060
94.0	Creek, bed, 2,026; rail.....	2,050
98.7	Flatbush station.....	2,001
99.9	Creek, bed, 1,958; rail.....	1,971
106.1	Tieland station.....	2,004
112.0	Creek, bed, 1,938; rail.....	1,966
114.7	Chisholm station.....	1,973
119.2	Fells station.....	1,975
127.7	Hondo station.....	1,937
135.4	Smith station.....	1,880
136.1	Athabaska river, high water, 1,810; water, 1,801; rail.....	1,856
142.1	Decrene station.....	1,920
146.3	Saulteaux river, flood, 1,906; high water, 1,903; water, 1,895; rail	1,927
148.7	Saulteaux station.....	1,944
152.3	Otauwau river, high water, 1,904; ice, 1,899; rail.....	1,937
153.7	Overlea station.....	1,956
154.9	Summit.....	1,965
162.3	Mittsu station.....	1,914
163.7	Mittsu creek, bed, 1,892; rail.....	1,900
167.0	Little Prairie creek, water, 1,903; rail.....	1,924
168.7	Sawridge station.....	1,905
174.4	Wagner station.....	1,905
179.3	Widewater station.....	1,905
185.4	Assineau station.....	1,926
185.9	Assineau river, bed, 1,903; rail.....	1,928
191.2	Gorbals station.....	1,928
195.1	Swan river, high water, 1,937; water, 1,919; rail.....	1,939
195.4	Campsie station.....	1,938
201.3	Strawberry creek, high water, 1,899; rail.....	1,904
	Lesser Slave lake, high water.....	1,899
203.5	Faust station.....	1,904
208.9	Driftpile station.....	1,924
210.6	Driftpile river, water, 1,923; rail.....	1,947
215.7	Indiana station.....	1,972
218.8	Mission creek, water, 1,949; high water, 1,952; rail.....	1,967
222.3	Arcadia station.....	1,947
224.3	Sucker creek, water, 1,916; high water, 1,921; rail.....	1,937

ALBERTA—SUNDRY RAILWAYS

363

Miles from Edmonton	EDMONTON, DUNVEGAN AND BRITISH COLUMBIA RAILWAY	Elevation above mean sea level
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228.9	Célestine station.....	1,947
232.7	East Prairie river, water, 1,952; high water, 1,962; rail.....	1,967
238.7	High Prairie siding.....	1,968
239.7	West Prairie river, water, 1,954; rail.....	1,960
243.9	Iroquois creek, water, 1,926; high water, 1,931; rail.....	1,937
244.2	Siding.....	1,951
252.9	Siding (summit).....	2,097
257.4	Creek, water (Sept. 4, 1913), 2,079; rail.....	2,082
259.9	Siding.....	2,089
266.2	Siding.....	2,054
267.9	McLennan, junction with Central Canada railway.....	2,044
273.2	Siding.....	1,985
279.2	Siding.....	1,904
281.1	Racing creek, bed, 1,880; rail.....	1,890
284.9	Siding.....	1,860
286.7	Racing creek, South fork, bed, 1,800; rail.....	1,847
289.9	Siding.....	1,834
294.9	Grade.....	1,663
298.9	Grade.....	1,417
301.9	Smoky river, water (Jan. 31, 1914), 1,232; high water, 1,248; rail.....	1,267
302.4	Siding.....	1,267
307.0	Coulée, bed, 1,520; rail.....	1,551
311.7	Vards station.....	1,819
314.9	Grade.....	1,862
320.9	Grade.....	1,889
324.5	Fox creek, high water, 1,844; rail.....	1,865
324.9	Siding.....	1,868
329.8	Grade.....	1,887
333.0	Siding.....	1,869
333.3	Creek, water, 1,856; high water, 1,857; rail.....	1,867
338.9	Road crossing.....	1,926
344.4	Siding.....	1,951
347.8	Burnt river, high water, 1,819; water (June 1, 1914), 1,810; rail.....	1,891
350.3	Siding.....	1,940
355.9	Siding.....	1,980
356.1	Spirit river, water, 1,942; high water, 1,946; rail.....	1,980
361.5	Siding.....	2,079
366.9	Siding.....	2,206
367.8	Creek, water, 2,163; high water, 2,169; rail.....	2,223
373.5	Siding.....	2,357
375.8	Creek, water, 2,369; high water, 2,372; rail.....	2,404
380.6	Siding.....	2,469
387.6	Siding.....	2,551
388.9	Moose Creek summit.....	2,583
389.8	Moose creek, bed, 2,561; rail.....	2,567
390.9	End of profile.....	2,544

Miles from Carbondale	ALBERTA AND GREAT WATERWAYS RAILWAY (Under Construction)	
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0.0	Carbondale, junction with Edmonton, Dunvegan and British Columbia railway, 17.9 miles from Edmonton.....	2,249
0.7	Little Egg creek, bed, 2,204; rail.....	2,250
7.6	Summit.....	2,307
11.5	Grade.....	2,233
14.5	Slough, water, 2,082; high water, 2,084; rail.....	2,087

Miles from
CarbondaleALBERTA AND CREAT WATERWAYS RAILWAY
(Under Construction)Elevation
above mean
sea level

17.0	Grade.....	2,206
21.2	Grade.....	2,163
26.8	Vermilion river, water, 1,982; high water, 1,990; rail.....	1,992
27.8	Redwater creek, water, 2,008; high water, 2,010; rail.....	2,019
31.7	Creek, bed, 2,014; rail.....	2,017
37.6	Nanapi creek, high water, 2,118; rail.....	2,119
42.5	Grade.....	2,128
44.1	Big Sucker creek, water, 2,116; rail.....	2,121
49.4	Slough, water, 2,185; rail.....	2,188
52.4	Coffee creek, water, 2,187; rail.....	2,191
56.6	Summit.....	2,227
62.7	Creek, bed, 2,191; rail.....	2,198
64.6	Flat creek, water, 2,152; high water, 2,156; rail.....	2,161
68.6	Spring creek, bed, 2,055; rail.....	2,089
73.5	Grade.....	2,075
79.9	Creek, high water, 2,027; rail.....	2,049
84.7	Beaver river, water, 2,006; high water, 2,008; rail.....	2,021
84.8	Line between R. XVI and XVII, tp. 65, W. 4 mer.....	2,021
87.5	Grade.....	2,033
93.5	Coulée, bed, 1,968; rail.....	1,981
98.2	Grade.....	1,961
100.4	Creek, water, 1,871; high water, 1,873; rail.....	1,875
105.0	East boundary sec. 11, tp. 66, R. XV, W. 4 mer.....	1,877
105.9	Missawabi lake, water, 1,868; high water, 1,872; rail.....	1,874
109.5	Road crossing.....	1,904
115.5	Stream, high water, 1,848; rail.....	1,862
118.2	Road crossing.....	1,878
121.1	East creek, high water, 1,790; rail.....	1,806
	Lac la Piche, high water.....	1,788
123.8	Road crossing.....	1,863
128.5	Road crossing.....	1,929
131.7	Creek, high water, 1,908; rail.....	1,915
132.7	Stream, water (May 12, 1914), 1,910; high water, 1,911; rail.....	1,914
138.3	Heart river, water, 1,900; high water, 1,902; rail.....	1,910
140.8	Road crossing.....	1,938
147.2	Creek, water, 1,935; high water, 1,938; rail.....	1,957
148.9	Creek, water (June 15, 1914), 1,947; high water, 1,949; rail.....	1,958
151.1	Lake, water (June 11, 1914), 1,986; rail.....	1,995
154.0	Creek, water (June 17, 1914), 2,020; high water, 2,022; rail.....	2,034
156.8	Creek, water (June 25, 1914), 2,121; high water, 2,122; rail.....	2,130
162.6	Summit.....	2,202
167.5	Wyow river, water (July 20, 1914), 2,142; high water, 2,144; rail.....	2,152
174.0	Creek, water (July 28, 1914), 2,142; high water, 2,143; rail.....	2,149
180.0	Birch creek, water (July 31, 1914), 2,125; high water, 2,129; rail.....	2,158
181.5	Lake, high water, 2,121; rail.....	2,127
183.0	Creek, water, 2,107; rail.....	2,112
186.8	Creek, water (Aug. 12, 1914), 2,087; high water, 2,089; rail.....	2,093
189.6	Creek, water (Aug. 12, 1914), 2,014; high water, 2,015; rail.....	2,035
193.2	Birch creek, water (July 10, 1914), 1,844; high water, 1,847; rail.....	1,853
197.5	Creek, water, 1,806; high water, 1,807; rail.....	1,812
199.5	Christina river, water (July 30, 1914), 1,768; approximate high water, 1,771; rail.....	1,785
200.2	End of profile, ground.....	1,792

ALBERTA—SUNDRY RAILWAYS

365

Miles from
McLennanCENTRAL CANADA RAILWAY
(Under Construction)Elevation
above mean
sea level

0.0	McLennan , junction with Edmonton, Dunvegan and British Columbia railway, 267.9 miles from Edmonton.....	2,044
5.0	Grade.....	2,044
10.0	Grade.....	2,153
11.5	Summit.....	2,177
14.0	Grade.....	2,148
17.1	Creek, bed, 2,109; grade.....	2,119
22.8	Grade.....	1,978
28.2	Creek, water, 1,878; high water, 1,882; grade.....	1,891
32.0	North Heart river, water, 1,795; high water, 1,800; grade.....	1,816
34.4	North Heart river, water, 1,657; high water, 1,661; grade.....	1,679
37.2	North Heart river, water, 1,481; high water, 1,487; grade.....	1,519
39.0	North Heart river, water, 1,376; high water, 1,379; grade.....	1,398
42.1	North Heart river, water, 1,242; high water, 1,246; grade.....	1,253
43.4	North Heart river, water, 1,192; high water, 1,195; grade.....	1,220
47.1	North Heart river, water, 1,058; high water, 1,064; grade.....	1,095
48.8	Peace river, water (Jan. 23, 1914), 1,027; high water, 1,042; grade.....	1,092
49.0	End of profile.....	1,101

Miles from
Pincher

KOOTENAY AND ALBERTA RAILWAY

0.0	Pincher , junction with Canadian Pacific Ry., Crowsnest line, 169.5 miles from Dunmore.....	3,770
1.6	Junction switch, with Canadian Pacific Ry., Crowsnest branch..	3,832
5.8	Grade.....	4,015
9.6	Lang coulée, bed, 3,927; ice (Feb. 20, 1911), 3,929; rail.....	4,026
10.9	Mill creek, rail.....	4,099
12.6	Grade.....	4,169
14.6	Beaver Mines , terminus.....	4,218

Miles from Michel	GREAT NORTHERN RAILWAY—MICHEL BRANCH	Elevation above mean sea level
0.0	Michel station.....	3,773
9.0	Olson station.....	3,526
13.6	Hosmer station.....	3,415
17.9	McDougall crossing.....	3,329
20.9	Fernie station.....	3,277
30.0	Swinton, junction with Morrissey, Fernie and Michel Ry.....	3,128
39.7	Elko station.....	3,103
44.7	Mott station.....	2,901
52.2	Baynes station.....	2,613
57.9	Waldo station.....	2,405
58.5	Elk river, high water.....	2,394
62.7	Dorr station.....	2,363
67.5	Flagstone station, B.C.....	2,366
72.7	international boundary.....	2,371
	GREAT NORTHERN RAILWAY—KUSKONOOK BRANCH	
Miles from Port Hill		
0.0	Port Hill station.....	1,782
0.3	International boundary.....	1,782
0.6	Rykert station.....	1,780
7.0	*Creston station.....	1,781
12.3	Wilkes, junction with Canadian Pacific Ry., Crowsnest branch....	1,858
21.0	Sirdar junction, with Canadian Pacific Ry., Crowsnest branch....	1,781
23.9	Kuskonook station.....	1,779
	GREAT NORTHERN RAILWAY—SPOKANE AND NELSON BRANCH	
Miles from International Boundary		
0.0	International boundary.....	1,353
0.5	Pend d'Oreille river, high water, 1,344; low water, 1,309; rail.....	1,358
0.7	Waneta station.....	1,358
4.7	Columbia Gardens station.....	1,613
7.4	Beaver creek, bed, 1,794; rail.....	1,818
9.8	Fruitvale (formerly Beaver) station.....	1,984
11.7	Champion station.....	2,008
12.8	Slough of Beaver creek, bed, 2,003; rail.....	2,012
19.6	Meadow siding.....	2,328
20.8	Summit, opposite Summit lake, rail.....	2,352
22.4	Erie station.....	2,343
22.7	North fork Salmon river, bed, 2,322; rail.....	2,333
25.2	Salmo station.....	2,181
28.2	Boulder brook, bed, 2,268; rail.....	2,276
32.8	Ymir station.....	2,398
36.3	Porto Rico station.....	2,587
36.3	Falls brook, bed, 2,578; rail.....	2,584
39.1	Hall brook, bed, 2,756; rail.....	2,769
40.0	Hall siding.....	2,828
42.4	Apex station.....	3,036
44.0	Summit, ground, 3,083; rail.....	3,078
47.3	East fork Cottonwood brook, bed, 2,688; rail.....	2,716
50.0	Mountain siding.....	2,385
51.3	Anderson brook, bed, 2,109; rail.....	2,136
55.0	Troup, junction with Canadian Pacific railway, Procter branch....	1,785
55.2	Kootenay lake, high water, 1,764; low water.....	1,749
60.3	Nelson, Canadian Pacific station.....	1,774

*Not operated between Creston and Kuskonook.

Miles from International Boundary	GREAT NORTHERN RAILWAY—ROSSLAND BRANCH	Elevation above mean sea level
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0.0	International boundary	2,171
0.8	Paterson station	2,192
9.7	Rossland station	3,458

GREAT NORTHERN RAILWAY—VANCOUVER,
VICTORIA AND EASTERN RAILWAY—
PRINCETON BRANCH

Miles from Hughes		
0.0	Hughes station, Mont.	1,502
5.9	International boundary	1,667
5.9	Laurier station, B.C.	1,666
11.9	Rideau "	1,698
18.8	Grand Forks junction, with Grand Forks spur	1,746
20.0	Kettle river, high water	1,729
	Grand Forks, junction with Phoenix branch	1,738
20.2	International boundary	1,737
20.3	Danville station, Wash.	1,737
24.4	Hurlburt station	1,766
30.7	Curlew "	1,791
36.6	Paxson "	1,817
40.7	Torodo "	1,845
45.3	Ferry station, Wash.	1,886
45.4	International boundary	1,886
45.5	Midway station, B.C.	1,886
54.0	Bergen station	2,085
59.7	Myncaster station	2,710
64.6	Syackan "	2,995
71.2	Bridesville station, B.C.	3,885
76.2	Molson station, Wash.	3,683
83.3	Nine-mile station	3,077
87.4	Circle "	2,562
94.3	Mount Hull station	1,693
101.3	Okanagan river, high water	912
101.5	Oroville station	919
112.8	Nighthawk station, Wash.	1,157
122.4	International boundary	1,194
122.7	Chopaka station, B.C.	1,194
126.0	Similkameen river, high water, 1,220; low water, 1,212; rail.	1,231
132.3	Similkameen station	1,285
132.4	Similkameen river, high water, 1,281; rail.	1,285
137.0	Similkameen river, high water, 1,332; rail.	1,337
139.6	Keremeos station	1,361
141.7	Similkameen river, high water, 1,400; low water, 1,395; rail.	1,410
146.0	Ashnola creek, high water, 1,467; rail.	1,470
146.6	Ashnola station	1,481
149.5	Similkameen river, low water, 1,484; high water, 1,422; rail.	1,501
152.9	Bradshaw station	1,597
157.3	Hedley station	1,719
158.1	Similkameen river, low water, 1,673; high water, 1,681; rail.	1,719
162.5	Cory station	1,799
165.2	Similkameen river, high water, 1,811; low water, 1,803; rail.	1,837
169.2	Bromley station	1,889
171.7	Wolf creek, high water, 1,894; low water, 1,891; rail.	1,901
174.0	Norman station	1,944
174.8	Similkameen river, high water, 1,969; low water, 1,962; rail.	1,972

Miles from: Hughes	GREAT NORTHERN RAILWAY—VANCOUVER, VICTORIA AND EASTERN RAILWAY— PRINCETON BRANCH	Elevation above mean sea level
178.7	Allison station.....	2,041
180.8	Similkameen river, water (April, 1906), 2,089; rail.....	2,105
181.2	Princeton, Kettle Valley switch, 2,112; station.....	2,111
182.2	Tulameen river, water (April, 1906), 2,133; rail.....	2,157
186.1	Tulameen river, water (March, 1906), 2,214; rail.....	2,256
190.4	Tulameen river, water, 2,368; rail.....	2,391
191.0	Coalmont station.....	2,431
196.1	Station ground.....	2,549
196.4	Tulameen river, water, 2,550; rail.....	2,561
197.2	Tulameen station.....	2,561
200.2	Otter lake, water (Jan., 1906), 2,557; high water, 2,562; rail.....	2,565
203.3	Station ground.....	2,617
206.4	Lake Thynne, water (Nov., 1909), 2,680; high water, 2,685; rail.....	2,695
209.1	Station ground.....	2,719
211.7	Otter creek, high water, 2,773; rail.....	2,780
213.6	East fork Otter creek, bed, 2,846; rail.....	2,882
219.7	*Otter Summit, junction with Kettle Valley railway.....	3,220
Miles from Sumas Junc. 0.0	*Sumas junction, with Canadian Northern Ry., main line, 1,984.6 miles from Port Arthur.....	31
1.7	Sumas river, water, 9; high water (1894), 36; ordinary high water, 30; rail.....	39
9.2	Station ground.....	75
14.0	Huntingdon, junction with Guichon branch.....	44
Miles from Grand Forks 0.0	GREAT NORTHERN RAILWAY—PHENIX BRANCH	
1.0	Grand Forks, junction with Grand Forks spur from Princeton branch.....	1,738
1.6	Weston station.....	1,729
6.6	Copper, junction with spur to smelter.....	1,747
13.9	Spencer station.....	2,446
15.5	Hale station.....	3,340
17.3	Denoro station.....	3,407
23.8	Glenside station.....	3,644
	Phoenix station.....	4,361
Miles from Vancouver 0.0	GREAT NORTHERN RAILWAY—VANCOUVER BRANCH	
0.7	Vancouver station.....	16.0
3.0	Wye.....	13
3.5	Highest point between Vancouver and New Westminster.....	103
5.3	Still Creek station.....	100.0
5.9	Ardley station.....	54.0
12.9	Burnaby station.....	54.0
13.1	Sapperton wye.....	13
13.8	Sapperton station.....	14.3
	New Westminster station.....	34.0

*The Kettle Valley railway (see page 98) will have running powers over the V. V. & E. Ry. tracks between Princeton and Otter Summit and the V. V. & E. will use the Kettle Valley tracks between Otter Summit and V. V. & E. junction. Between V. V. & E. junction and Sumas junction the V. V. & E. has running powers over the Canadian Northern tracks.

BRITISH COLUMBIA—SUNDRY RAILWAYS

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Miles from Vancouver	GREAT NORTHERN RAILWAY—VANCOUVER BRANCH	Elevation above mean sea level
14.1	Fraser river, high tide (springs), 8.5; floor of road bridge, 61; rail	33.9
14.2	Fraser River, junction with Hazelmere branch	34
19.4	Townsend station	15
24.8	Colebrook, junction with Guichon branch	8
28.4	Crescent station	17
35.2	White Rock station, B.C.	15
36.2	International boundary	22
36.7	Blaine station, Wash.	22

Miles from Sumas	GREAT NORTHERN RAILWAY—GUICHON BRANCH	
0.0	Sumas station, International boundary	44.5
0.1	Huntingdon, junction with Princeton branch (V. V. & E. Ry.)	41
3.6	Abbotsford station	139
8.1	Pinegrove "	267
12.0	Summit	362
12.7	Aldergrove station	314
16.9	Orter "	303
21.6	Lincoln "	182
29.4	Cloverdale, junction with Hazelmere branch	6.3
33.4	Alluvia station	7
34.9	Southport station	8
35.9	Colebrook, junction with Vancouver branch	8
36.7	Guichon Line junction	9
42.7	Inverholm station	7
45.1	Challucthan "	8
46.5	Guichon station	11

Miles from Fraser River	GREAT NORTHERN RAILWAY—HAZELMERE BRANCH	
0.0	Fraser River, junction with Vancouver branch	34
1.0	Liverpool station	9
9.0	Port Kells station	68
15.2	Cloverdale, junction with Guichon branch	6.3
20.3	Hazelmere station	123

Miles from Argenta	HOWSER LAKES RAILWAY (Projected)	
0.0	Kootenay lake, high water, 1,764; low water	1,749
3.5	Argenta wharf, outer end	1,751
9.8	Hamil creek, water, 1,822; grade	1,831
	Lardo junction	1,859
13.6	End of Lardo branch	2,026
11.1	Howser lake, high water, 1,810; low water, 1,801; grade	1,811

Miles from Victoria	VICTORIA AND SYDNEY RAILWAY	
0.0	Victoria station	57
4.3	Royal Oak station	115
7.9	Elk Lake station (summit)	235
9.1	Keating station	201
11.8	Saanichton station	170
16.1	Sydney station	22

Miles from
New
Westminster

BRITISH COLUMBIA ELECTRIC RAILWAY--
FRASER VALLEY BRANCH

Elevation
above mean
sea level

0.0	New Westminster station.....	16
0.8	Government station.....	16
1.0	Fraser river, high tide (springs), 8.5; floor of road bridge, 61; rail.....	33
2.2	South Westminster station.....	49
3.3	Scott station.....	217
4.6	Kennedy station.....	330
4.7	Summit.....	337
7.8	Newton station.....	249
11.2	Sullivan station.....	21
11.2	McLellan station.....	11
12.7	Meridian station.....	10
13.4	Great Northern Ry. crossing.....	13
13.5	Cloverdale station.....	14
14.5	Halls Prairie station.....	23
15.5	Anderson station.....	16
16.8	Hunter station.....	34
17.3	Langley Prairie station.....	40
18.1	Norris station.....	36
19.8	Milner station.....	48
20.5	Jardine station.....	45
21.7	Harmsworth station.....	84
23.0	Sperling station.....	188
24.3	Warwhoop station.....	227
25.3	Coughlan station.....	298
26.5	County Line station.....	321
27.5	Jackman station.....	279
28.3	Lombard station.....	295
29.0	Rand station.....	226
29.7	Bradner station.....	344
30.8	Dennison station.....	348
30.9	Summit.....	350
31.9	Mt. Lehman station.....	88
34.5	Gifford station.....	21
36.6	Glover station.....	19
37.1	Clayburn station.....	26
37.1	Canadian Pacific Ry., Mission branch, crossing.....	24
39.3	Abbotsford station.....	88
40.7	Delair station.....	41
42.1	Vye station.....	42
43.0	Huntingdon station.....	42
45.1	Sumas river, high water, 23; water, 19; rail.....	37
45.2	Whatcome station.....	38
46.6	Evans-Thomas station.....	38
49.6	Vedder Mountain station.....	38
51.2	Kidd station.....	40
52.6	Belrose station.....	41
53.0	Sumas lake, low water (March 7, 1908), 9; average high water, 25 extreme high water (1894).....	36
53.7	Sinclair station.....	40
55.1	Yarrow station.....	40
57.0	Woodruff station.....	42
58.8	Lickman station.....	55
59.5	South Sumas station.....	56
61.0	Sardis station.....	51
61.6	Knight Road station.....	45
62.5	Chilliwack river, high water, 34; water, 22; rail.....	30
63.8	Chilliwack station.....	32

Miles from
Skagway

WHITE PASS AND YUKON RAILWAY

Elevation
above mean
sea level

0.0	Skagway station, Alaska	21
4.7	Boulder station	218
5.9	Denver station	432
7.0	Rocky Point station	637
8.5	Clifton station	849
12.0	Heney station	1,573
13.1	Glacier station, Alaska	1,871
10.4	White Pass station, B.C.	2,885
20.4	Lake, ice (Oct. 30, 1913)	2,876
24.5	Summit, highest point on line	2,940
25.3	Meadows station	2,924
26.5	Summit lake, rail	2,777
27.7	Fraser station	2,767
32.7	Log Cabin station	2,915
40.6	Bennett station	2,186
	Lake Bennett, water	2,148
4	Pavy station	2,157
6	Pennington station	2,158
29.4	Watson station	2,159
67.5	Caribou station	2,161
74.9	Lansdowne station	2,357
79.4	Lorne station	2,356
81.5	Minto station	2,416
83.0	Lewes lake, water (Nov. 2, 1913)	2,371
84.0	De Wett station	2,442
88.9	Robinson station	2,499
89.0	Summit, rail	2,507
95.0	Cougar lake, ice (Nov. 3, 1913), 2,452; rail	2,457
95.1	Cowley station	2,463
103.5	Macrae station	2,397
104.8	Wigan station	2,398
106.0	Cañon station	2,373
107.2	Ear Lake station	2,276
110.7	Whitehorse station	2,083
	Lewes river, head of Whitehorse rapids, 2,094; foot of rapids	2,077

Mi. Dartmouth	INTERCOLONIAL RAILWAY—DARTMOUTH BRANCH EXTENSION	Elevation above mean sea level
0.0	Dartmouth, junction with Dartmouth branch	97
5.3	Eastern Passage summit	111
14.5	Lawrencetown station	15
18	Three-fathom Harbour station	22
21	Seaforth station	12
24	West Chezzetcook station	63
27.3	Head of Chezzetcook, road crossing	27
29.6	East Chezzetcook station	25
30.4	Gaetz brook, high water, 40; low water, 38; rail	46
31.6	Rogers brook, high water, 53; low water, 50; rail	59
32.2	Petpeswick lake, high water, 54; low water, 52; rail	58
34.3	Petpeswick river, high water, 33; low water, 30; rail	67
35.6	Musquodoboit river, low water, 20; high water, 28; rail	39
36.6	Ritcey lake, high water, 52; low water, 43; rail	63
42.5	Crawford Falls settlement	74
47.6	Meagher Grant station	71
51.0	Little river, high water, 76; low water, 64; rail	82
51.8	Little River station	82
55.5	Musquodoboit river, high water, 87; low water, 75; rail	95
56.7	Middle Musquodoboit station	93
62.3	Elmsvale, Moose River road	147
69.3	Upper Musquodoboit station	172
78	Dean settlement, intersection of Halifax and Colchester county line with Guysboro road	378
81	Chaplain brook, crossing Halifax and Colchester county-line	503
82.0	Mill pond, Chaplain brook	603
85.0	Sloane lake	648
85.5	Bog Island lake	638
88.0	Cox lake	628
89	Summit between Musquodoboit and West river St. Mary valleys	683
90.0	Loon lake	618
92	Loon brook, Halifax and Guysboro county-line	498
95	South branch St. Mary river, highway bridge	447
97.5	Gorman brook, highway crossing	411
106.5	Caledonia highway, near Presbyterian church	248
114.5	McDonald brook, highway crossing	168
120	West river St. Mary	88
124.5	Glenelg, near cross road	58
126	East river St. Mary, meadow level	53
Miles from: Guysboro		
22	Summit between Country Harbour Cross Roads and Guysboro	418
28	Country Harbour river, at Country Harbour Cross Roads	23
32	Summit between Melrose and Country Harbour Cross Roads	198
37	Cumminger lake, water	88
Miles from Dartmouth	DARTMOUTH CANAL (abandoned)	
0.0	Halifax harbour at Dartmouth	0
0.7	Dartmouth lakes	67
3.3	First Shubenacadie lake (summit level)	93
7.2	Second Shubenacadie lake	63
13.6	Fletcher lake	51
16.4	Grand lake	43
25.0	Foot of lock No. 12	28
27.5	Foot of Tremaine lock (No. 13)	18
33.7	Foot of Black Rock lock (No. 14)	12
44.0	Foot of Fort Ellis tide-lock	0

NOVA SCOTIA—SUNDRY ALTITUDES

Elevation
above mean
sea level

Annapolis County

North mountain, on mile S.E. of Port George.	450
North mountain, three and one-half miles E. of Port William.	500
North mountain, three miles S.E. of Crute cove.	600
North mountain, near Middle.	598
North mountain, four miles N.E. of Annapolis.	590
North mountain, near Lower Granville.	700
North mountain, east side of Digby gut.	610
South mountain, near Bridgetown.	530
South mountain, near Annapolis.	515

Antigonish County

Tracadie, hills two miles S. of.	400
Sugarloaf hill (Antigonish).	760
Antigonish Harbour P.O., hill one mile N.W. of.	600
George, cape.	310
George, cape, hills one mile W. of.	600
Sugarloaf hill (Malignant brook).	680
Back settlement Arisaig, hill two miles E.N.E. of.	1,010
Back settlement Arisaig, hill one-half mile S. of.	1,000
Eigg mountain.	1,000
Dunmaglass, hill one mile E.N.E. of.	800

Colchester County

Cobequid mountains, summit of Mapleton and Lower Five Islands road.	840
Cobequid mountains, summit of Tatamagouche and Debert road.	710
Cobequid mountains, summit near Folleigh station.	800
Red head.	500
Economy point, hill behind.	500

Cumberland County

Head of Amherst.	160
Boss point, summit.	210
Rodney corner.	625
Claremont hill.	565
Windham hill.	625
Westchester village.	745
Sutherland lake.	730
Mapleton village.	210
Cobequid mountains, summit of River Philip and Economy road.	890
Cobequid mountains, summit one mile N. of Farmington.	835
Cobequid mountains, summit one mile S.E. of Farmington.	895
Cobequid mountains, summit one mile S. of Westchester.	945
Cobequid mountains, summit two miles S.S.W. of Westchester station.	870
Cobequid mountains, summit four miles S.S.E. of Westchester station.	990
The Cobequid range 'extends, in a nearly east-and-west direction, along the north side of Minas basin, with a width of nine or ten miles and a height of 900 or 1,000 feet, some of the culminating peaks probably reaching'.	1,100
Wentworth village.	210

NOVA SCOTIA—SUNDRY ALTITUDES

Elevation
above mean
sea level

Cumberland County

Lower Wentworth village.....	160
Mount Pleasant, cross roads north of.....	195
Warren village.....	225
Salem village.....	450
Little River village.....	350
Chapman settlement.....	110
Hansford hill.....	295
Chignecto cape, hill two miles E.N.E. of.....	730
Chignecto cape, hill six miles N.E. of.....	890
Haute, isle.....	320
Springhill, lamp station.....	501
" base of water tank (town water supply), 652; top of tank.....	702
" waste weir of reservoir (town water supply).....	749

Cape Breton County

Rhumore cape, hill one mile south of.....	600
Coxheath hills, seldom exceed.....	550
Cox hill.....	550
Shenacadie hill.....	670
George mountain.....	890
Boisdale hills.....	700
Sand lake.....	96
Lake south-west of Sand lake.....	112
McDonald lake.....	170
Long lake.....	212
Lake north of Long lake.....	189
Cow Bay road, north-east of Long lake.....	265
Waterford lake.....	81
Kilkenny lake.....	130
Grand lake.....	95
Port Morien branch of Sand Lake Ry., at road crossing.....	160
Lake north of Loon lake.....	56
Dominion No. 5 mine.....	165

Digby County

Hill, west side of Digby gut.....	560
South mountain, west side of Bear river.....	460
Prim point.....	400
Digby neck, summit near Waterford P.O.....	425
Long island, summit of.....	210

Guysborough County

Middle Country harbour, hill one mile N.W. of.....	455
Middle Country harbour, hill two miles W.N.W. of.....	474
New Harbour river, hill near head of.....	380
Bear hill, east of Ingersoll lake.....	725

Halifax County

Halifax citadel.....	268
McCabe lake.....	246
Lake Major.....	53

NOVA SCOTIA—SUNDRY ALTITUDES

Elevation
above mean
sea level

Halifax County

Vinegar lake	103
Quacks lake	213
Hubley lake	364
Pogwa lake	160
Hubley Big lake	235
Power lake	56
Mount Pleasant	330
Eagle-nest rock	175
Morris lake	93
Bissett lake	86
Russell lake	123
Long lake	206
Spruce-hill lake	363
Big Five-bridge lake	158
Frederick lake	266
Five-island lake	246
Fraser lake	233
Kearney lake	137
Jeddore head, summit	200
Clam harbour, hill two miles north of	290
Sheet harbour, hills at head of	200
Salmon river, hill one mile N.E. of mouth of	300
Bedford basin, hills to E. and W. of	330
Soldier lake	211
Conrod lake	82
Petpeswick lake	51
East Chezzetcook, R. C. church	66
West Chezzetcook, P. C. church	25
Seaforth P.O.	45
Grand Desert P.	18
Governor lake	254
Three-fathom Hart	12
Porter lake	2
Lawrencetown P.O.	56
East lake	223
Barr settlement	30
East Petpeswick	27
West Jeddore P.O.	13
Lower West Jeddore P.O.	12
Lake Charles	95
Preston Road P.O.	181
Cranberry lake, water	237
Loon lake, water	222
Thomas lake, water	60
William lake, water	61
Middle Sackville	218
Webber lake, water	236
Charles lake, water	95
Lucasville P.O.	408
North Beaverbank, church, 644; post office	586
Barrett lake, water	290
Topsail lake, water	225
Geizer hill, Geizer's house	444
Geizer hill	492

NOVA SCOTIA—SUNDRY ALTITUDES

Elevation
above mean
sea level

Halifax County

Dutch Village, school.....	94
Otter lake, water.....	291
Shea lake.....	390
Turf lake.....	371

Hants County

Lorne Settlement school.....	144
Woodville P.O.....	180
Centre Rawdon.....	281
Rawdon Gold Mines.....	483
Nine-mile River P.O.....	86
Rawdon.....	467
South Rawdon P.O.....	593
Junction of old Dawson and Halifax and Windsor roads.....	573
Renfrew P.O.....	301
Hillsvale.....	475
Newport Corner P.O.....	190
St. Croix church.....	44
Cockcomb lake, water.....	461
Pigot lake, water.....	462
Lewis mills.....	485
Lewis lake, water.....	483
Upper Newport P.O.....	259
Ellershouse, R. C. church.....	95
Five-mile lake.....	402
Ponhook lakes.....	248
Big Indian lake.....	215
McLennan Mill lake.....	522
McGrath lake.....	486
Long lake (Herbert river).....	393
Nicholson lake.....	455
Valley lake.....	448

Inverness County

Bear hill.....	750
High capes, lat. 47°.....	1,000
Poulet cove, hill to south.....	700
Red cape.....	900
Pleasant Bay P.O., hill two miles N.E. of.....	1,100
Pleasant Bay P.O., hill one mile S.W. of.....	1,270
White capes.....	850
Cape Rouge, hill one mile N.E. of.....	1,261
Presqu'île, hill one mile E. of.....	1,000
Cheticamp hills, north summit.....	1,100
Cheticamp hills, south summit.....	1,130
Squirrel mountain.....	1,220
Margaree, hill two miles E. of.....	830
Margaree, hill one mile S. of.....	600
Marsh Point hills.....	560
Mahou highlands.....	1,000
Long Point hills.....	700
Calder hill.....	750
Dallas Brook hills.....	708

NOVA SCOTIA—SUNDRY ALTITUDES

Elevation
above mean
sea level

Inverness County

Salt hill.....	717
Creignish hills, west summit ..	850
Creignish hills, east summit..	980
Little narrows, hill two miles west of.....	820

Kings County

Blomidon, cape ..	570
Split, cape.....	400
North mountain, summit, two and half miles S.E. of Shoal point..	500
North mountain, summit, four miles E. of Morden.....	500

Lunenburg County

Aspotogan mountain..	485
Timber lake ..	310
Dauphine Mill lake..	233
Big Whitford lake..	168
Fox Point lake..	114
Mill Cove lake ..	82

Pictou County

Bailey Brook P.O., hill one mile S.E. of..	750
Piedmont, hill near.....	847
Dalhousie or Fitzpatrick mountain..	950
Heathbell, hill one mile E. of..	546

Victoria County

St. Paul island, north summit...	400
St. Paul island, south summit.....	500
North cape	1,000
North Cape district is an elevated plateau, with a mean elevation of 1,200 feet, and attaining, at some points, an elevation of '.....	
Wilkie Sugarloaf mountain.....	1,500
Black head, hill one and half miles S.W. of.....	1,200
Red head.....	900
Ingonish mountain.....	272
Ingonish harbour, hill at head of.....	1,392
Smoke cape.....	700
Smoke cape, hill behind.....	950
North Shore P.O., hill two and half miles west of.....	1,218
Hill one mile from mouth of McAskill brook	900
St. Anne mountain.....	960
St. Anne harbour, hills at head of.....	1,070
Cape Dauphin hills, summit near Cape Dauphin P.O.....	500—600
Cape Dauphin hills, summit near Otter point.....	1,045
Cape Dauphin hills, summit near port Bevis.....	915
Bucklaw hill.....	740
Hunter mountain.....	952
Mackay point.....	680
	610

ST. JOHN RIVER TO CHALEUR BAY*

Tobique river—	
Two miles above Gulquac river	439
Blue mountain	1,711
At mouth of Blue Mountain brook	530
Three miles above Blue Mountain brook	575
Four miles below Nictau	583
Two miles above North fork	617
North fork, nine miles from mouth	694
1st portage, about twenty miles from Nictau	716
2nd portage	750
4th portage, at Upper forks	771
Two miles above Upper forks	811
Two and half miles above Upper forks	879
Three miles below Nictor	872
Nictor lake	886
Bald mountain (Nictor lake)	2,604
Rising ground, three miles N.E. of Nictor lake	1,778
Ridge between Tobique and Nipisiguit rivers	2,200
Nipisiguit river, branch of	1,826
" " conical hill, one mile N.E. of last	2,151
" " high peak, three and half miles from conical hill	2,321
Side of range of hills forming divide between Nipisiguit and Upsal-	
quitch rivers	1,611
Hill three miles from last	2,153
Upsalquitch river—	
Small brook, running N.W.	1,242
Small brook, running S.E.	1,561
Head of lumber road	1,251
At lumber camp on branch	603
One and half miles from bank of river	981
Hill, two miles from lumber camp	1,303
One and half miles from last	952
West branch, three miles above forks	329
Three miles S.W. up a brook	833
Main South branch, at Ramsay portage	379
Little South-east branch, at Ramsay's camp	649
Little South-east branch, two miles east of Ramsay's camp	1,156
Hill, two miles east of Ramsay's camp	1,540
Hill, thirteen miles east of Ramsay's camp	1,326
Jacquet river, edge of	514
Jacquet river, top of bank	1,045
Brook, in deep ravine, running east	739
Blue mountain, north side of	1,172
Hill, one mile north-west of camp on Jacquet river	1,152
Camp near Big-hole brook	1,426
Portage road from Nash brook	280
Middle river, eight miles above Chaleur bay	262
" at falls	498
" at Burnt camp	667
Two miles north-west of Burnt camp	807
Middle river, Ferguson's lower camp	904
" Ferguson's upper camp	924
" above Ferguson's upper camp	1,093
Two miles west of last station	1,243

*From the *Report of the Commissioners on the Northeastern Boundary* (elevations reduced to mean tide)

ST. JOHN RIVER TO CHALEUR BAY

Large brook.....	1,036
Range of hills running south-west	1,547
Hill.....	1,820
Hill.....	1,664
Small brook, running south...	1,374
Top of ridge.....	1,667
Top of ridge.....	2,085
Ravine, running west...	1,320
North side of ridge.....	1,516
Upsalquitch lake.....	862
Upsalquitch lake, mountain half-mile west of	1,815
Brook, branch of Nipisiguit river...	1,142
Conical hill.....	2,294

Miles from
St. John River

ROYAL ROAD

0.0	St. John river at Pickard's mills.....	0
6.0	Plateau north of Nashwaaksis river.....	416
15.5	Divide between Nashwaaksis and Tay rivers...	960
17.5	Tay river.....	750
25.0	Height-of-land between branch of Nashwaaksis and Tay rivers.	1,133
27.0	Branch of Nashwaak river.....	640
33.5	Hill north of Nashwaak river.....	1,260
41.5	Summit between Nashwaak and Shiktahawk rivers...	1,550
42-48	Sources of Becaguimec, Nashwaak and Miramichi rivers	1,450-1,550
56.5	Shiktahawk river.....	760
60.0	Summit between Shiktahawk and Monquart rivers	1,660
62.5	Monquart river.....	1,000
66.0	Summit between Monquart river and Trout brook	1,540
68.0	Trout brook.....	1,060
71.7	Trout brook.....	500
74.5	Tobique river.....	316
85.0	Summit between Tobique and Little Salmon rivers.....	1,000
90.0	Little Salmon river.....	366
96.5	Summit between Little Salmon and Fall rivers	680
100.0	Fall river.....	400

MOUTH OF GOOSE RIVER TO SUSSEX—*Barometric*

Goose river at mouth.....	0
" two miles from mouth.....	950
" five miles from mouth.....	1,045
Shepody road.....	1,083
Chapel on Sussex road.....	1,140
Hill east of chapel, estimated (hills west of chapel may be 100 feet higher).....	1,340
Sussex, Intercolonial Ry. station	69

ST. JOHN RIVER

At mouth, ordinary high water, spring tides.....	12.67
At Fredericton bridge, extreme high water, 28; high water, 12 extreme low water.....	4
Hawkeshaw bridge, low water.....	54
Near Hatfield ferry, extreme freshet, 97; low water	76
Near Meductic ferry, low water.....	82
Woodstock, near McElroy mill, low water...	110

ST. JOHN RIVER

Two and half miles below Hartland.....	121
Mouth of Becaguinec river.....	131
Mouth of Camel brook, at Hale.....	134
Mouth of Presqu'île river.....	147
Below Florenceville.....	153
Mouth of Shikatahawk river.....	161
Mouth of Monquart river.....	168
Below mouth of Tobique river.....	223
Near mouth of Aroostook river.....	232
Mouth of Salmon river.....	262
Ortonville.....	264
Grand falls, lower basin.....	291
Grand falls, upper basin, high water, 424; low water ..	405.7
Fort Kent, high water, 505.0; low water.....	401.4
Mouth of St. Francis river, high water, 556; low water ..	532
Mouth of Allagash river, high water, 589; low water ...	583
Near Dickey P.O., Me., high water, 595; low water..	587

RESTIGOUCHE RIVER

Matapedia, Intercolonial Ry. bridge, freshet, 31; summer water	13
Mouth of Upsalquitch river.....	50
Chain-of-rocks rapid.....	100
Mouth of Red Pine brook.....	170
Mouth of Patapedia river.....	220
Mouth of Tracy brook.....	265
Mouth of Kedgwick river.....	325
Mouth of Guanamitz river, high water, 471; low water.....	465

PATAPEDIA RIVER

At confluence with Restigouche river.....	220
Mouth of Rivière Sauvage.....	325
Mouth of Pollard brook.....	455
Mouth of Awaganesees brook.....	660

KEDGWICK RIVER

Confluence with Restigouche river.....	325
Mouth of McDougall brook.....	540
Mouth of States brook.....	565
Hill north-east of Kedgwick river, near mouth of States brook....	1,300
General level of country.....	1,400-1,500

UPSALQUITCH RIVER

Confluence with Restigouche river.....	50
Mouth of Grog brook.....	85
Mouth of Boland brook.....	115
Mouth of Northwest branch.....	180
Mouth of Meadow brook.....	400

MAIN NORTHWEST MIRAMICHI RIVER

Mouth of Big Sevogle brook.....	50
Chaplin island.....	70
Portage river.....	118
Tomogonops river.....	170
Sevogle river at 'Square forks'.....	175

NIPISIGUIT RIVER

Foot of Pabineau falls	40
Middle landing	95
Foot of Grand falls	167
Upper basin, Grand falls	252
Foot of 'Narrows'	292
Head of 'Narrows'	312
Mouth of Nine-mile brook	400
Mouth of Fortynine-mile brook	460
Half-mile above Foot of Nine-mile brook	525
Foot of Indian falls (Geological Survey)	575
(Ganong)	632
Country to south of river, at Indian falls	1,265
Country north of river, below mouth of Fortyfour-mile brook	1,165
At foot of mount Cartier	715
At mouth of Portage brook (Geological Survey)	720
(Ganong)	843
Second Nipisiguit lake	980
Nipisiguit or Aucler lake	1,000

NEW BRUNSWICK—SUNDRY ALTITUDES

Elevation
above mean
sea level

Albert County

Hopewell cape, hill to west	450
Albert, hill two miles N.W. of	800
Albert, hill five miles N. of	1,230
New Horton	270
Matthews head	712
New Ireland	1,100
Red head, hill immediately behind	660
Shepody mountain	1,050
Elgin corner	347
Summit between East and West branches Turtle creek	885
Summit between West branch Turtle creek and Prosser brook	952
Summit between East branch Turtle creek and Weldon creek	850
Church hill, hill 1 mile W. of	1,285
Caledonia settlement, 1 $\frac{1}{2}$ miles W.N.W. of	1,250
Albert Mines station, hill 1 $\frac{1}{2}$ miles west of	820
Salem, bridge near P.O., floor, 100; water	83
Shenstone, corner $\frac{1}{2}$ mile east of	219
Beach Hill P.O., corner one mile west of	533
Beach Hill P.O., hill $\frac{1}{2}$ mile south of	805
Irving settlement, corner $\frac{1}{2}$ mile north of	594
Rose Vale, door-sill of blacksmith's shop	838
Prosser Brook, P.O., Hayward Brook bridge, $\frac{1}{2}$ mile S.E., water	406
Prosser Brook, bridge 1 $\frac{1}{2}$ mile N. of, water	325
Parkindale P.O., corner $\frac{1}{2}$ mile S.E. of	333
Parkindale, Prosser brook at bridge near P.O., water	276
Pleasant Vale P.O.	355
Pleasant Vale, corner $\frac{1}{2}$ mile west of	560
Pleasant Vale, abutment of Little River bridge, $\frac{1}{2}$ mile east of	317
Meadow P.O.	403
Pollett river, at bridge, 1 $\frac{1}{2}$ miles south of Elgin, floor	445
Riverview, corner	546
Goulden mountain	1,195

NEW BRUNSWICK- SUNDRY ALTITUDES

Elevation
above
sea level

Albert County

Alma, summit of plateau to north.	1,290
Church hill.	1,200
Caledonia mountain.	1,300
In Albert county 'the crystalline ridge or plateau which stretches along the northwest side of the bay of Fundy rises in broken ridges to an altitude of'.	1,300-1,400

Carleton County

Iron-ore hill	630
Johnville.	640
Gordonville.	840
Smith corner, hill south of	1,415
Pole hill.	935
Foreston, hill two and half miles north-west of.	1,330
Glassville.	770
South Knowlesville.	770
Skedaddle ridge.	1,425
Cloverdale.	350
Moose mountain.	1,490
Beaufort settlement, hill one mile east of.	1,175
Newburg settlement.	565
Blowdown settlement, hill north of.	539
Union corner.	640
Ivy corner.	670
Richmond corner.	620
Jacksonville	360
Scott settlement.	470
Watson settlement.	570
Briggs corner.	540
Lindsay.	450
Waterville.	315
Ashland.	510
Farmerston.	305
Bloomfield corner.	515
McCafferty settlement.	455
Centreville.	375
Henderson corner.	630
Gilmor mills.	510
Knowlesville.	725
Greenfield.	775
Wicklow.	260
Upper Knoxford.	635
Canaan settlement.	540
Flagstaff hill.	585
Golden ridge.	1,500
Kilfoil, hill three miles east of.	1,450
Carlow, cross roads.	755

Charlotte County

Victoria, lake	495
Pleasant, mount.	1,175
Eagle mountain.	854
Blair, mount.	610

NEW BRUNSWICK—SUNDRY ALTITUDES

Elevation
feet above
sea level

Charlotte County

Chamoock hill.....	637
Grand Manan island, Marks hill ..	290
Utopia lake, hill near outlet.....	510

Gloucester County

Robertville ..	400
Ste. Louise.....	250
Paquetville.....	210

Kent County

Bass River settlement.....	155
Girvan settlement.....	138
Spring Brook settlement.....	158
Pelerin settlement.....	266
Galloway settlement.....	110
Scotch settlement.....	250
Country between heads of Salmon and Richibucto rivers.....	150
Country at head of Canaan river.....	260
Lake settlement.....	145
Bishopsland.....	286

Kings County

Bald mountain	1,430
Bull Moose hill.....	750
Kingston peninsula, ridge at south end.....	600
Hillsdale, hill four and half miles north-east of	1,223
Fowler corner, hill near.....	675
Londonderry, hill north of.....	1,250
Cripp hill.....	1,225
Mechanic Settlement P.O., hill four miles south-west of.....	1,400
Kars.....	288
Scotch settlement.....	660
East Scotch settlement.....	520
Callina corner.....	475
Snider mountain.....	720
Fenwick P.O.....	605
Jordan mountain.....	775
Whites mountain.....	790
Springhill.....	450
Perry settlement.....	440
Piccadilly mountain.....	1,000
Pollett lake.....	968
Shepody Road P.O.....	850
Barnesville	470
Markhamville, at manganese mine.....	700
Markhamville, hill one mile north of mine.....	1,045
Salt Springs P.O., one mile west of.....	300
Saddleback settlement.....	1,000
Campbell settlement, hill east of	1,050
Pleasant lake.....	1,200
Long settlement.....	1,200
Waterford P.O.....	840
Jeffry P.O.....	375
Lakefield.....	500
Wanamake	650

NEW BRUNSWICK—SUNDRY ALTITUDES

Elevation
above mean
sea level

Madawaska County

Green River mountain 1,600

Northumberland County

Hind lake 1,450
 McInnes lake 1,465
 Adder lake 1,350
 Serpentine lake 1,340
 Serpentine river, stillwater, six miles below Serpentine lake 1,215
 Doaktown, plateau south of 400
 Height-of-land between Cain and Gaspereau rivers 200
 Hills west of confluence of Monahan brook and Renous river 800
 Blackville, plateau northwest of 300
 Pleasant ridge 500
 Dungarvon river, headwaters of 1,015
 Black River settlement 100
 Nipisiguit river, at Indian falls, hills three miles S.E. of 1,500
 Bartibog settlement, cross roads 250
 Nalaik mountain, at lower end of Serpentine stillwater 2,529
 Mount Enaud, or Bald-face mountain 1,690
 Nictor-Nipisiguit portage, at crossing of Caribou brook 984
 First Nipisiguit lake 1,011
 Second Nipisiguit lake (Geological Survey) 980
 Nipisiguit river, at mouth of Portage brook 843
 Nipisiguit river, at camp near foot of mount Cartier 715
 Nipisiguit river, at lower end of Indian falls 632
 Nipisiguit river, at mouth of Nine-mile brook 429
 Carleton, mount. 2,630
 Head, mount. 2,440
 La Tour, mount. 2,073
 Teneriffe or Bathurst mountain 2,090
 Denys or Bald mountain (Nipisiguit) 1,890
 Bald mountain (Lower South branch) 2,500
 Upsalquitch lake 790
 Upsalquitch lake, mountain northwest of 2,186
 Mountainous country between Nipisiguit and Upper Southwest
 Miramichi; general level 1,200-1,300, with peaks rising to 2,600-2,700
 Little Bald mountain (Northwest Miramichi river) 2,075

Queens County

Headline settlement, cross road 495
 Clones settlement 400
 Fredericton road, side road to Enniskillen station 435
 Olinville P. O. 400
 Hibernia P.O. 700
 Bald hill 700
 McDonald corner, one and half miles west of 300
 English settlement, side road 565
 Canaan river, at mouth of Coy brook 95

Restigouche County

Nictor lake 840
 Sagamook or Bald mountain (Ganong) 2,515

NEW BRUNSWICK SUNDRY ALTITUDES

Elevation
above mean
sea level

Restigouche County

Gordon, mount	1,382
Bailey, mount	1,115
Franquelin hill	1,280
Gardens hill	1,265
Bernardin, mount	1,265
Dalhousie, mount	1,115
Slate mountain	2,000
Squaw mountain	2,000
Sugarloaf mountain (Campbellton)	950
Central watershed, between gulf of St. Lawrence and bay of Fundy	500-1,000

St. John County

Cape Spencer, hill two and half miles E.N.E. of lighthouse	667
Rogers' head	400
Round head	380
Little Salmon river, hill near mouth of	650
Goose river, hill near mouth of	35
Farmer lake	311
Douglas lake	280
Loch Lomond	314
Spruce lake	198
St. John, Mt. Howe summit	171
Menzie settlement	150
Willow grove	30
Hardingville	430
Wood lake	522
Otter lake	345

Sunbury County

Hardwood Ridge settlement	400
Doherty corner	322
Boyne settlement	365
Darby Gillans	400
Victoria settlement	325
Greenfield settlement	175
Peltonia settlement, hill three miles N.E. of	690

Victoria County

Trousers lake	1,350
Milpigos lake	1,333
Portage lake	965
Gulquac lake	1,330
Grays lake	1,370
Merithew lake	1,390
Indian lake	1,405
Front lake	1,445
Furbish pond	1,470
Don lake	1,285
Milnagek or Island lake	1,510
Crest of ridge between Little Southwest Miramichi and Long lakes	1,731
Kincardine settlement, hill one mile east of	1,465
Birch ridge	840

NEW BRUNSWICK—SUNDRY ALTITUDES

Elevation
above mean
sea level

Victoria County

Four Falls.....	355
Aroostook Portage P.O.....	625
California P.O.....	670
Mud lake, Don branch of Tobique river.....	1,240
Portage from Mud lake to Portage lake, summit.....	1,508
Portage from Mud lake to Portage lake, first beaver pond.....	1,418
Portage from Mud lake to Portage lake, second beaver pond.....	1,275
Oxbow settlement.....	590
Everett settlement.....	489
Blue Mountain settlement.....	525
Riley Brook settlement.....	526
Costigan mountains.....	2,080
Gulquac mountains.....	2,000
Black mountains.....	2,280
Serpentine mountains.....	2,240
Nictau or forks of Tobique river.....	552
Lower Blue mountain.....	1,920
Upper Blue mountain.....	1,640
Bald head or Riley mountain.....	2,080
Tilley settlement.....	650
Ridge, on Kintore and Red Rapids road.....	1,095
Andover, hill two miles west of.....	735

Westmorland County

Irishtown.....	400
Summit between Dover and Memramcook.....	393
Pré-d'en-haut, corner.....	133
Moncton road, highest point.....	195
Beech hill.....	400
Aboushagon.....	216
Halls hill.....	150
Folly point.....	315
Mount Uniacke.....	210
Dorchester cape, summit.....	300
Emigrant settlement.....	135
Cap Maringouin.....	220
Cape Bald settlement.....	100
Lutz mountain.....	450
Steeves mountain.....	373

York County

Cherry hill.....	808
Fredericton, plateau above.....	418
Skiff lake.....	650
Carroll ridge, near Skiff lake.....	1,000
Pemberton ridge.....	750
Peltoma settlement.....	550
Oromocto lake.....	415
Ridge south of Oromocto lake, 565; ridge west of.....	550
Grand and North lakes, hills north of.....	750-800
Canterbury, hill one mile north-east of.....	750
Country between Taxes and Nashwaak rivers.....	900-1000
Boiestown and Fredericton road, summit 4 miles south of Boiestown.....	650

NEW BRUNSWICK—SUNDRY ALTITUDES

Elevation
above mean
sea level

York County

Manners Sutton P.O.	575
Roach settlement	465
Allandale settlement	575
Nortondale settlement	470
Cross Creek settlement	715
Green Hill settlement	725
Williamsburg settlement	1,050
Campbell Settlement P.O.	660
Gordonvale settlement	830
Stanley village	330
Cranberry lake	486
George lake	430
First Eel lake	520
Second Eel lake	550
Magaguadavic lake	377
Bald or Wadawamketch mountain (Cranberry lake)	900
Fifth Digdeguash lake, hill to west of	525
Magundy P.O., hills to west of	750
Prince William P.O., hill two miles southwest of	725
Springfield hill	700
McLeod hill	416
Howland ridge	945
Upper Hainesville, hill two miles north of	1,100
Maple ridge	875
North lake, hill one mile south east of	900
Mapleton	690
Lower Caverhill settlement	760
New Zealand settlement	465
Zionville settlement	620
Mount Hope	400
Upper Durham settlement, east of	620
Richibucto road, one mile west of county-line	385

NEW BRUNSWICK AND MAINE BOUNDARY

St. Croix River

Union dam, foot, 7; crest	19
Cotton Mill dam, foot, 20; crest	42
Murchie dam, foot, 43; crest	55
Milltown upper dam, foot, 55; crest	67.5
Sprague Falls (Woodland) dam, tail race, 98; crest, 136.4; flashboards	145
Grand falls, foot, 154; head	182*
Spednic falls, foot, 190; head	203*
Canoose ripps, foot, 212; head	219
Haycock ripps, foot, 224; head	230
Meeting-house ripps, foot, 234; head	241
Hog Island ripps, foot, 250; head	261
Rocky ripps, foot, 262; head	271
Cedar Island ripps, foot, 291; head	302

*The Grand and Spednic falls have been "drowned out" by the Grand Falls dam; tail race of Grand Falls dam, 154.6; foot, 160; crest, 190; low water above, 195; flashboards, 201.1

Miles from Monument	NEW BRUNSWICK AND MAINE BOUNDARY	Elevation above mean sea level
<i>St. Croix River</i>		
	Pork ripples, foot, 309; head.....	321
	Little falls, foot, 321; head.....	326
	Canadian Pacific Ry. bridge at Vanceboro, high water.....	372
	Sandy bay.....	378
	Palfrey lake.....	378
	Chiputneticook lake.....	378
	Mud lake.....	418
	North lake.....	427
	Grand lake.....	427
<i>St. Croix River to St. John River</i>		
0.0	Monument at source of Ste. Croix river.....	539
1.5	Alder brook, water.....	449
2.8	Mud brook.....	487
5.0	Winey brook.....	531
10.5	Stream near crossing of Houlton branch, Canadian Pacific Ry.....	536
11.6	Parks hill, highest part on line.....	814
19.4	South branch Meduxnekeag river, water.....	365
22.5	North branch Meduxnekeag river, water.....	326
23.3	Northeast branch Meduxnekeag river ('Dead stream'), water.....	337
26.0	" " " " " ".....	400
27.5	" " " " " ".....	411
33.0	Hill, highest part on line.....	616
34.9	Riv. Presqu'île, water.....	322
38.8	Latitude of Mars hill.....	527
	Mars hill (in Maine, one mile west of line).....	1,688
42.6	Guisguir river, water.....	460
44.1	Hill, highest part on line.....	750
45.3	Rivière des Chutes, water.....	412
47.3	Blue hill, highest part on line.....	1,071
50.6	Camp brook, water.....	679
57.7	Aroostook hill, highest part on line.....	885
58.9	Aroostook river, water.....	345
60.2	Hill, highest part on line.....	717
62.1	Limestone river, water.....	399
65.2	Limestone river, water.....	476
69.7	Province branch Limestone river, water.....	598
71.7	Pokiok hill.....	847
74.0	Rapide-de-Femme brook, water.....	597
74.9	North branch, Rapide-de-Femme brook, water.....	601
75.8	Hill, south side of St. John river.....	772
77.2	St. John river at head of Grand falls, upper basin, high water, 424 low water.....	406

HEIGHT-OF-LAND BETWEEN GULF AND RIVER
ST. LAWRENCE AND ATLANTIC OCEAN

Elevation
above mean
sea level

NOTE.—These altitudes were measured by Major J. D. Graham, U.S.A., along the line claimed by the United States as the northern boundary of Maine and New Hampshire. Commencing at the intersection of a due north line from the St. John river at Grand falls, with the water-parting between the Restigouche and the St. Lawrence—the so-called 'North-west Angle of Nova Scotia'—it follows the water-parting to the head of Hall stream.

Near the north end of the meridian line from St. John river at Grand falls (so-called 'North-west angle of Nova Scotia')	1,519
Six miles south of head of lake Johnson	1,372
Three and half miles south of head of lake Johnson	1,677
Johnson or Mistigouche lake	1,027
At north end of Kedgwick lake	1,841
At head of Kedgwick river	1,557
Folliot lake (Rimouski river)	1,069
Folliot lake, hill at lower end	1,540
West branch Kedgwick river, hill three miles N.E. of source lake	1,638
West branch Kedgwick river, height-of-land at source lake	1,249
Rimouski lake, hill east of	1,639
Green River and Kedgwick portage, hill near north end	1,863
Green River and Kedgwick portage, hill near south end	1,787
South branch Kedgwick river, hill near head	1,702
Lake Tiarks, hill near head of	1,882
Tracey brook (Goodrich fork), near source	1,814
Nemdingum lake, hill near inlet	1,511
Island lake, hill near outlet	1,231
Seven lakes, near head of	1,235
St. Honoré, hill three miles north-east of	1,807
St. Honoré, hill four miles south of	1,979
St. Honoré, hill three miles west of	1,825
Hill near Little St. Hubert lake	1,297
St. Francis station, near	1,330
Parke tp., near headwaters of Rivière Verte	2,231
Pohengamook tp., north-west corner, near small lake	1,662
Chabot tp., north-east corner	1,849
Woodbridge tp., south-east corner	1,878
Painchaud, centre of tp., near source of Manix river	1,936
Chapais tp., near lake Ste. Anne	1,868
Lafontaine tp., N.W. portion, near headwaters of R. du Gue	1,600
Garneau tp., north-east corner	1,898
Fournier tp., south-west corner	1,440
Arago tp., north-east corner	1,410
" east of Lac d'Apique	1,567
" west of Lac d'Apique	1,664
Patton tp.	1,400-1,720
Montminy tp., eastern portion	1,727
Roux tp., north-eastern portion	2,358
" lot 35, con. V	1,972
Ware tp., lot 5, con. XIV	1,995
Cranbourne tp., Snowshoe pond, lot 40, con. XI	1,405
Langevin tp., lot 13, con. XII	1,753
" near Langevin P.O.	1,260
" lot 30, con. IV	1,340
" lot 48, con. I	1,450
Metgermette North tp., near lake Abnaki	1,567

HEIGHT-OF-LAND BETWEEN GULF AND RIVER ST. LAWRENCE AND ATLANTIC OCEAN	Elevation above mean sea level
Metgermette portage, hill two and half miles south of.....	2,012
The height-of-land between Metgermette portage and source of Hall stream forms part of the International boundary between the United States and Canada.	
Metgermette South tp., con. II.....	1,995
" " Portage lake.....	1,590
" " lot 10, con. XII.....	2,338
Linière tp., lot 110, con. II, sec. C.....	2,400
Risborough tp., lot 3, con. I.....	2,053
" " lot 15, con. II.....	2,835
" " lot 17, con. II.....	1,858
" " Hogsback hill.....	2,381
" " lot 19, con. XI.....	1,685
Ditchfield tp., Moose hill.....	2,862
Louise tp., two and half miles from north-east angle.....	3,113
" " at headwaters of Spider river.....	1,554
Woburn tp., mount Gosford.....	3,658
" " two miles S.W. of mount Gosford.....	3,172
" " lot 18, con. V.....	2,225
Chesham tp., Saddleback mountain.....	3,198
" " lot 25, con. X.....	2,288
" " near N.E. angle of New Hampshire.....	2,568
Emberton tp., lot 6, con. IV.....	3,408
" " lot 22, con. IV.....	2,376
" " lot 32, con. III.....	2,800
" " lot 50, con. I.....	2,282
Auckland tp., lot 23, con. VIII.....	1,960
Auckland tp., at head of Hall stream.....	1,825
*Between the Metgermette portage and lake Etchemin the maxi- mum height is.....	1,718
Between lake Etchemin and Rivière Ouelle, maximum is.....	2,854
Between the head of the Rivière Ouelle and the Temiscouata por- tage, minimum is 853; maximum.....	2,231
Between first crossing of the Temiscouata portage and mount Paradis, minimum is 906; maximum.....	1,983
Between Temiscouata portage and head of the Baibouscache, minimum is 676; maximum.....	1,510
Between the head of the Baibouscache and Rimouski lake, mini- mum is 651; maximum.....	1,824
Between Rimouski lake and the 'Northwest angle,' minimum is 1,014; maximum.....	1,841

LAKE ST. JOHN TO LAKE MISTASSINI

(Measurements by H. O'Sullivan, P.L.S.)

NOTE—As the published elevations were based on an assumed elevation of 300 feet for lake St. John, a uniform addition of 15 feet has been made to reduce to mean sea level.

Chegobish lake.....	1,106
Obatagamau River—	
Lake at west end of Height-of-land portage.....	1,240
Obatagamau lake.....	1,135
Lake on Mistassini canoe-route, lat. 49° 41'.....	1,169

*Executive Documents, 27th Congress, 3rd Session, 1842-43.

LAKE ST. JOHN TO LAKE MISTASSINI

Elevation
above mean
sea level

Obatagama River— <i>Con.</i>	
Lake-expansion, lat. 49° 35' N., long. 74° 38' W.	1,127
Lac Presqu'île.....	1,074
Mouth of tributary from south, lat. 49° 41' N., long. 74° 55' W.	1,060
Mouth of tributary from south, lat. 49° 40' N., long. 75° 09' W.	1,003
Mouth of tributary from east, lat. 49° 45' N., long. 75° 07' W.	990
Lake-expansion, long. 75° 22'.....	932
Mouth of Chibougamau river.....	901
Confluence with Waswanipi river.....	763
Rivière du Chef—	
Rivière du Chef, at confluence with Nikabau river, 'The Forks'	928
Foot and head of Moose portage.....	944-954
Mouth of river Azianne.....	962
Three-quarters of mile below Bouleau portage.....	997
Mouth of river Nestaokano.....	1,075
Mouth of Otter creek.....	1,135
Foot of Petite Grand'mère.....	1,180
Mouth of Rivière Petite Meule.....	1,200
Head of two portages.....	1,260
Foot and head of Swampy portage.....	1,275-1,333
Old-man lake.....	1,345
Foot and head of Old-man portage.....	1,350-1,400
Canoe lake.....	1,420
Loon lake.....	1,465
File-axe lake.....	1,485
Height-of-land between river St. Lawrence and Hudson bay.....	1,515
Perch river, at west end of portage from height-of-land.....	1,475
Perch river, at east end of portage to lake Mistassini.....	1,230
Lac Claire.....	1,259
Sikawako river, at mouth of Rivière Claire.....	1,240
Porcupine mountain, near last.....	2,140

LAKE ST. JOHN TO LAKE MISTASSINI

(Barometric observations by J. Richardson in 1870 and A. E. Barlow, 1910)

Ashuapmucuan River—	
Head of Rocky portage.....	363
Head of Ste. Ange portage....	401
Head of Bear portage.....	484
Foot of Stony portage, 506; head...	536
Foot of Pumakaw rapid, 538; head...	572
Mouth of Big Stony river.....	607
Head of Flat rapid.....	632
Head of White Spruce rapid...	664
Head of Hawk Mountain rapid...	693
Hawk mountain, on east bank....	1,200
Foot of Chaudière falls, 706; head...	822
Mouth of Chegobish river.....	836
Head of "The Two" portages...	857
Mouth of Pike river.....	876
Head of First Step portage.....	903

LAKE ST. JOHN TO LAKE MISTASSINI

Elevation
above mean
sea levelAshuapmuchuan River—*Con.*

Mouth of Step Portage brook.....	923
Mouth of La Loche brook.....	939
Hills to east of river.....	1,250
'The Forks,' junction of du Chef and Nikabau rivers.....	955

Nikabau River—

Head of 3rd portage from forks.....	980
Head of 4th portage from forks.....	1,038
Head of 5th portage from forks.....	1,092
Mouth of Sap-tree river.....	1,156
Ashuapmuchuan lake.....	1,160
Head of Pole rapid.....	1,180
Head of Two Portage rapid.....	1,198
Head of Crooked rapid.....	1,219
Nikabau lake.....	1,232
Jordan lake.....	1,238
Obamiskachi lake.....	1,242
Narrow Ridge lake.....	1,268
Whitefish lake.....	1,298
Patrick mountain.....	1,570
Height-of-land between river St. Lawrence and Hudson bay.....	1,350

Obatagama River—

Foot of Cypress portage.....	1,220
Foot of Bear portage.....	1,204
Obatagama lake.....	1,185
Divide between Obatagama and Chibougamau lakes.....	1,255
Chibougamau lake.....	1,230
Lac aux Dorés.....	1,218
Rush lake.....	1,180
Lake Assinitchibastat.....	1,188
David lake.....	1,195
Simon lake.....	1,211
Merrill lake.....	1,215
Lake Frances.....	1,360
Bourbeau lake.....	1,335
Gwillim lake.....	1,187
Eva lake.....	1,374
Ida lake.....	1,408
Cache lake.....	1,244
Dufresne lake.....	1,277
Willy lake.....	1,301
Peter lake.....	1,246
St. Regis lake.....	1,250
Lemoine lake.....	1,381
Lac Oreille.....	1,320
Blondeau lake.....	1,285
Dufault lake.....	1,327
Dulieux lake.....	1,195
Buckell lake.....	1,196
Ledden lake.....	1,214
War lake.....	1,229
Paint mountain.....	1,500
Sorcerer mountain.....	1,805
Juggler mountain.....	1,770
Spy hill.....	1,675

LAKE ST. JOHN TO LAKE MISTASSINI

Elevation
above mean
sea level

Beaver mountain.....	1,770
Bouleau mountain.....	1,760
Portage mountain.....	1,830
Portage, Chibougamau lake to Wakonichi lake, summit	1,405
Wakonichi lake.....	1,276
Wako mountain.....	1,900
Cumming mountain.....	1,955
Lake Mistassini.....	1,243

'The length in a straight line between the extremities of the northeast and southwest bays is nearly 100 miles, the average breadth of the main body being about 12 miles. . . . To the south of Mistassini, and running north of east is a ridge of hills forming an escarpment about 300 feet high and constituting the height-of-land.'

Lake Mistassinis ..	1,289
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NIKABAU LAKE TO DESERT

Nikabau lake.....	1,232
Askitichi lake.....	1,254
Kapadigoitch lake.....	1,257
Head of Foam falls, Foam-fall river	1,300
Normandin lake.....	1,330
Watershed between Foam-fall and Clearwater rivers. .	1,588
Clearwater lake.....	1,364
Natoush lake.....	1,312
Pemiskash lake.....	1,278
Sandy-beach lake.....	1,265
Assiwanan lake.....	1,265
Lac Travers.....	1,264
Hill six or seven miles south-east of Lac Travers.	1,850
River St. Maurice at Kikendatch.	1,252
Loon lake.....	1,323
Water-swamp lake.....	1,374
Kowpettap lake.....	1,220
At end of portage to Kikendatch	1,210
Great Beaver lake.....	1,397
Hair-cutting lake.....	1,493
Watershed between Hair-cutting and Gatineau rivers...	1,498

Gatineau River, South Branch—

At west end of portage	1,485
Skunk lake.....	1,468
White Bear lake.....	1,437
Hills three or four miles south-east of White Bear lake, highest	1,850
At "Great bend".....	1,328
Two and half miles below Montopakush portage...	1,219
Hills below Montopakush portage, highest ..	1,750
At bend forty-nine miles above forks ..	1,222
Thirty-nine miles above forks.....	1,150
'Between thirty-seven and forty-nine miles above the forks the hills show occasional rocky summits'; highest ..	1,675
Twenty-nine miles above forks.....	1,070
Mouth of Blueberry river.....	1,050
Head of rapids, ten miles above forks.....	1,007
'The Forks,' junction of Northwest and Southeast branches	808

NIKABAU LAKE TO DESERT

Elevation
above mean
sea level*Gatineau River—*

Head of Long rapid, 694; foot.....	625
Foot of Dog portage.....	620
Foot of Sturgeon chute.....	512
Hamilton's farm, opposite.....	512
Mouth of Gens-de-Terre river.....	507
Head of Backing-up portage.....	443
Foot of Mountain portage.....	409
Foot of Brûlé portage.....	400
Foot of Big Eddy portage.....	393
Foot of Castor Blanc portage.....	390
Foot of Joseph portage.....	376
Foot of Portage des Éaux.....	370
Mouth of Desert river.....	369

MONTMORENCY RIVER

Montmorency fall, head of.....	268
Beaver Meadow camp.....	933
First camp, branch of Snow river.....	990
Second camp, at Rivière Brûlé.....	1,400
Six miles up Rivière Brûlé.....	1,900
Third camp, Severn river.....	1,757
Camp at Snow lake.....	2,403

Miles from
Murray Bay

MALBAIE AND HA-HA RIVERS*

5.7	Malbaie river, below dam.....	128
8.0	Malbaie river, above dam.....	178
9.9	Stream from Lac Nord.....	233
12.0	Malbaie river.....	325
14.7	Stream from lake Long.....	339
15.7	Stream from Lac Les-Pieds-du-Mont.....	391
17.0	Stream from right.....	456
17.7	Rivière des Américains.....	463
19.0	On Malbaie river, end of road.....	481
21.0	Stream from left.....	537
23.2	Stream from left.....	569
25.8	Stream from right.....	641
26.6	On Malbaie river, old road bridge ("Le Pont").....	666
29.5	Mouth of Larouche river.....	731
31.1	Mouth of Rivière des Érables.....	755
37.1	Stream from right.....	825
43.6	Stream from right.....	929
44.7	Malbaie river.....	1,011
45.5	Stream from right, 15 ft. fall.....	1,080
46.1	Mouth of Rivière L'Escarpée.....	1,151
48.1	Mouth of Cabanne river.....	1,240
51.0	On Malbaie river.....	1,375
52.7	Top of bank, Malbaie river (barometer only).....	1,536
	Cabanne river, 3 miles from mouth.....	1,357
	Stream from lake Johnnie.....	1,373
	Lake Johnnie (barometer only).....	1,416
	East of lake Johnnie.....	1,293

*Elevations taken during Feb. 1912, by E. S. M. Lovelace, C.E. Actual levels were carried through from the St. Lawrence to a point on the St. Urbain road, a few miles south of Bagotville, and side-lines of levels were run with aneroid, checking back on benches.

MALBAIE AND HA-HA RIVERS

Elevation
above mean
sea level

Round lake (on portage to St. Urbain road).....	1,420
Cabanne lake	1,557
Lake (on portage to St. Urbain road).....	1,577
Height-of-land (on portage to St. Urbain road)....	1,600
On portage to Petit Lac Ha-ha (barometer only)	1,310
Petit Lac Ha-ha (barometer only)	1,202
Grand Lac Ha-ha " "	1,197
On St. Urbain road " "	1,466
On St. Urbain road " "	1,604
Lake Huard.....	1,317
Where portage joins road (actual levels).....	1,364
On St. Urbain road.....	1,296
Lac la Belle Truite.....	1,279
Corner post, 'R.F.N. XVIII'.....	1,249
On St. Urbain road, bottom of valley.....	792
On St. Urbain road, top of bank, north side of valley.....	893
Ha-ha river, at junction with stream, few miles S. of Bagotville ..	665

ROUGE RIVER

At confluence with Ottawa river, summer water.....	130
Head of cascades, at Cousin's.....	329*
At smooth water, below Moore's.....	358*
Head of Hindleg rapid.....	376*
Head of Upper fall, Island chute.....	413*
Head of Burst-bag rapid.....	422*
Foot of Bell chute, 435; head.....	454*
Head of Otter chute.....	462*
Mouth of Maskinonge river.....	469*
Head of Mountain chute.....	578*
Foot of Bevan or Cutlog rapid, 605; head.....	622*
Foot of Devil rapid.....	633*
Mouth of Devil river.....	649*
Mouth of George brook.....	670
Foot of Iroquois chute, 674; head.....	688
At Canadian Pacific Ry. bridge, high water.....	726

George Brook—

Lake Simon.....	702
Second small lake.....	785
Lake of Three Mountains.....	788
Green lake.....	864
First lake N.W. of lake of Three Mountains.....	846
Second lake N.W. of lake of Three Mountains.....	862
Third lake N.W. of lake of Three Mountains.....	875
Fourth lake N.W. of lake of Three Mountains.....	948

Lake and hills east of Rouge River—

Small lake on Trembling Lake portage ..	869
Long lake.....	854
Great Beaver lake.....	843
Trembling lake.....	761
Pool below cascade at outlet of Trembling lake.....	732
Trembling mountain.....	2,474
Cone mountain.....	1,370

*The altitudes marked with an asterisk are only approximately correct.

PETITE NATION RIVER

Elevation
above mean
sea level

At St. André-Avellin village, water (Feb. 23, 1910).....	494
At Ripon village, water (Mar. 17, 1910).....	507
Lake Simon, water (Mar. 25, 1910).....	654

MONTREAL TRAMWAYS

Montreal, Ahuntsic station.....	77.2
Montreal, Snowdon junction.....	233.2
Montreal, Blue Bonnets race track, rail..	166.7
Montreal, Turcot station.....	52.7
Montreal, Cemetery station.....	373.4
Montreal, Côte-St-Luc station.....	251.4
Montreal, Tétreauville station.....	52.7
Sault au Recollet station.....	68.6
Rivière des Prairies, St. Vincent station.....	57.9
Lachine, Jacques Cartier and Montreal Ry. crossing.	132.6
Lachine, Dominion station.....	76.4
Lachine, Stoney Point station.....	73.3
St. Laurent station.....	129.3
Bois-franc station.....	95.8
Cartierville station.....	81.3
Rockfield station.....	68.8
Outremont, Quarry station.....	360.4
Montreal East station.....	41.1
Maisonnette station.....	64.4
St. Jean-de-Dieu, Longue Pointe Asylum Ry. crossing.	54.9
Pointe-aux-Trembles station.....	43.7

QUEBEC—SUNDY ALTITUDES

Abitibi District

Gull lake.....	660
Confluence of Opawika and Waswanipi rivers.....	746
Olga lake.....	635
Mattagami lake.....	61
Soskumika lake.....	6
Kelvin lake.....	
Opatawaga lake.....	
Evans lake.....	412
Sand lake.....	375
Divide between Broadback river and Nemiskau lake.....	650
Nemiskau lake.....	549
Lac Eau-Jaune.....	1,112
Lac Presqu'île.....	1,059
Windy lake.....	1,040
Lac du Bras-Coupé.....	993
Fathers lake.....	974
Tongue lake.....	856
Lichen lake.....	842
Tush lake.....	841
Pewakan lake.....	838
Rush lake.....	1,054
Five-mile lake.....	1,047
Opemiska lake.....	1,032
Waswanipi lake.....	680
Patikamiki lake.....	744
Patikamiki lake, hill west of inlet.....	1,250

QUEBEC—SUNDRY ALTITUDES

Elevation
above mean
sea level

Argenteuil County

Rawcliffe P.O. 535

Arthabaska County

Ste. Clothilde, Nicolet river, water 274; bridge 294; R.C. church 292

Ashuanipi District

Ossokmanuan lake..... 1,600
Attikonak lake..... 1,700
Height-of-land between Attikonak and Romaine rivers..... 1,750
Menihek lakes..... 1,750
Petitsikipau lake..... 1,675
Sandgirt lake..... 1,650
Jakopi lake..... 1,630
Winokapau lake..... 750
Hamilton river, at foot of Grand falls, 900; head of Grand falls..... 1,202
Eastmain river, at Sandy portage..... 1,400
Patamisk lake..... 1,800

Beauharnois County

Vendome, cross roads..... 129

Bonaventure County

Scaumenac, mount..... 1,745
Battery point, hill two and half miles N.W. of..... 1,500
St. Louis mountain..... 1,000
Carleton, mount..... 1,830
Tracadigash mountain..... 1,230
Nouvelle mountain..... 1,058
Maria mountain..... 1,230
West point..... 400

Brome County

Foster mountain..... 2,550
Pine mountain, highest portion of Brome mountain..... 1,500
Sutton mountains, nearly..... 3,000
Owls Head mountain..... 2,484
Massawippi mountain..... 1,350
Pinnacle or St. Armand mountain..... 2,510
Colliers hill..... 1,450
Stream, outlet of Brome lake, water, 649; bridge..... 656
Brome Centre, schoolhouse..... 719
Owens Corners..... 654
Sutton, Mountain View hotel..... 594
Abercorn, brick church..... 505
Calls Mill..... 519
Gilman..... 516
West Brome P.O..... 417
Laroche P.O..... 558
East Farnham, cemetery..... 337
Brigham, South branch Yamaska river, water, 273; at Warming-
ton's store..... 296

QUEBEC SUNDRY ALTITUDES

Elevation
above mean
sea level

Champlain County

St. Bruno mountain	700
Daisy lake	285
Seigneurial lake	347
Lac des Bouleaux	436
Lac des Atocas	151

Charlesbourg County

Cape Eternity	1,500
Pointe à l'Abatis, peak	2,530
Grande Pointe, peak	2,650
St. François-Xavier, peak on hill N.W. of	1,970
Cap de la Baie, peak on hill N.W. of	2,067
Ile aux Coudres, summit	390
Mont les Eboulements	2,551
Les Eboulements, church	1,186
Murray mountains, south peak	2,050
Murray mountains, north peak	2,300
Rivière Noire, peak six miles N.W. of mouth	1,870
Eagle cape	807
Cape Dogs, peak behind	1,395

Châteauguay County

L'Artifice, corner quarter-mile east of	194
Tatehurst P.O.	149
Garland	183
St. Urbain-de-Châteauguay P.O.	164
Holton	204
Aubrey, cross roads quarter-mile S. of	139
Botreaux P.O.	217
St. Chrysostôme, cross roads 0.75 mile N.W. of	158
Norton Creek	165
Ste. Martine	126
Ste. Philomène P.O.	156

Drummond County

St. Germain-de-Grantham, schoolhouse	305
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Gaspé County

Magdalen Islands—	
Great Bird rock	105
Bryon island	200
Cape Alright	400
Alright island, summit	420
Grindstone island, summit	550
Amherst island, summit	550
Amherst island, Demoiselle hill	280
Entry island, summit	580
Grosse Isle, west point	300

Anticosti Island—

Summit	700
Bear head	400

QUEBEC—SUNDRY ALTITUDES

Elevation
above mean
sea level

Gaspé County

Amicosti Island—Cont	260
Table head.....	120
Cape Sandtop.....	
The most elevated points on the south coast are at the mouth of Jupiter river, where cliffs rise on the east side to the height of from 80 to 100 feet, and on the west side to 150 feet. The whole of the north side of the island is a succession of ridge-like elevations of from.....	
Macastey ridge, eleven miles from the west end, upwards of	200-500
High cliff, eighteen miles east of Macastey ridge.....	400
West cliff.....	500
Charleton point, one and quarter miles inland from	400
Bonaventure island.....	400
Percé rock.....	288
Gaspé, cape.....	692
Percé, or Table Roulante mountain.....	1,230
Douglastown mountain.....	1,500
Gaspé basin, hill opposite.....	1,505
St. Alban mountain.....	1,170
St. Joseph mountain.....	1,000
Little capes.....	1,000
Fame Point mountain.....	1,000
Chlorydorme mountain.....	1,000
Louis, mount.....	1,000
Shickshock mountains: in the neighbourhood of the St. Anne and Cap Chat rivers, many of the main peaks rise to upwards of	3,500
Terrace mountain, east peak.....	1,957
Richardson peak.....	3,700
Richardson peak, summit one mile north of.....	3,500
Albert, mount.....	3,560
Barn mountain.....	3,400
South mountain.....	2,413
Table-top mountain.....	4,000
St. Anne lake.....	1,313
St. Anne lake, 'peaks on east and west sides rise to'.....	2,500-2,800
St. Anne river, forks of.....	709
Old-man mountain.....	2,669
Conical mountain.....	1,910
Divide between Cap Chat and Grand Casapedia rivers...	1,707

Huntingdon County

Ste. Barbe.....	166
O'Neil, corner one mile N.W. of.....	184
Maplemore P.O.....	218
Dundee Centre.....	188
Ste. Agnès-de-Dundee P.O.....	208
Kilbain.....	233
Trout River village, Trout river, water, 155; bridge...	179
Huntingdon P.O.....	163
Herdman P.O.....	315
Rockburn P.O.....	424
Dewittville, Trout river, water, 126; bridge.....	142
Dewittville P.O.....	149
Frontier, corner quarter-mile E. of.....	286
Covey Hill village.....	559

QUEBEC SUNDRY ALTITUDES

Elevation
above mean
sea level**Huntingdon County**

Covey hill.....	1,113
Geraldine, corner 0.75 mile E. of ..	990
Corbin.....	239
Vicars.....	286
Starnesborough P.O.....	317
Franklin Centre P.O.....	505
Cowan.....	231
Barrington, corner 0.7 mile S.W. of ..	187
Hallerton P.O.....	205
Athelstan village.....	176
St. Stanislas, R. C. church.....	165
Kelso, cross roads.....	193
Elgin, town hall.....	206

Iberville County

St. Alexandre-d'Iberville, church	191
Ste. Sabine.....	164

Jacques Cartier County

Ile Bizard, highest point.....	200
Ile Perrot, highest point.....	150
Lachine, R. C. church.....	83

Kamouraska County

Notre-Dame-du-Portage, hill two miles E. of ..	850
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Labelle County

Chéneville village.....	702
Donaldson lake.....	336
McArthur lake.....	530
Wakefield lake.....	531
Dodge lake.....	625
Lièvre river, at end of Dodge Lake portage.....	415
McFee lake.....	601
Green lake.....	509
Newton lake.....	666
Kendall lake.....	694
Maskinonge lake.....	694
North Nation Mills P.O.....	286
Mayo P.O.....	610

Laval County

Ste. Dorothée P.O.....	130
Ste. Dorothée-Est P.O.....	96
Petite-Côte-Ste. Rose P.O.....	135
St. Elzéar-de-Laval.....	157

Lévis County

Lévis hills, east summit.....	368
Lévis hills, west summit.....	371
Lauzon hill.....	218

QUEBEC—SUNDRY ALTITUDES

Elevation
above mean
sea level

L'Islet County

Anse-à-Giles, hill five miles S.S.E. of.....	1,140
L'Islet station, range five miles S.E. of.....	1,390
Trois-Saumons, peak ten miles E. of.....	2,090
St. Jean-Port-Joli, peak six and half miles E. of.....	1,240
St. Roch-des-Aulnaies, peak seven miles S.E. of.....	1,666

Matane County

Matawee, mount.....	3,365
Logan, mount.....	3,708
Bayfield, mount.....	3,471
Bayfield, mount, peak three and half miles south of.....	2,669
Little Berry mountains.....	1,500
Big Berry mountains.....	2,000

Missisquoi County

Stanbridge, American hotel.....	254
Puddledock corner.....	258
Stanbury, Methodist church.....	315
Sweetsburg, school.....	421
Sweetsburg, K. C. church.....	388
Cowansville, Ottawa hotel.....	383
Mystic P.O.	206
North Stanbridge P.O.....	251
Bedford, Main street.....	177
Bedford, floor of steel bridge over Pike river.....	181

Montmagny County

Cap St. Ignace, range four miles S.E. of, east summit.....	1,095
Cap St. Ignace, range four miles S.E. of, west summit.....	1,220

Montmorency County

Orleans island, summit.....	500
Montmorency river, range to east, summit, lat. 46° 59'.....	2,144
Montmorency river, range to east, summit, lat. 47° 01'.....	2,447
Château Richer hills, summit three miles N.W. of village.....	1,405
Château Richer hills, summit six miles N.W. of village.....	2,305
Château Richer hills, summit two miles N. of village.....	1,085
Château Richer hills, Single-tree mountain.....	2,060
Ste. Anne-de-Beaupré hills, south peak.....	2,505
Ste. Anne-de-Beaupré hills, north peak.....	2,620
Ste. Anne, mount.....	2,680
St. Joachim hill.....	610
Cap Tourmente mountain.....	1,874
Cap Tourmente chapel.....	1,692
Cap Tourmente, hill three miles N.W. of.....	1,745
Cap Tourmente, hill one and half miles N. of.....	1,550
Cap Rouge, peak one mile W. of.....	1,955
Cap Rouge, peak one mile N.N.W. of.....	1,710
Cap Gubanne, peak one and half miles N.W. of.....	2,215
Cap Gubanne, peak two miles N. of.....	2,070
Anse-aux-Vaches, peak one and half miles W. of.....	1,890

QUEBEC—SUNDRY ALTITUDES

Elevation
above mean
sea level

Montmorency County

Sault-aux-Cochons, peak one and half miles W. of.....	2,365
La Rose river, at road bridge, St. Fereol parish, low water.....	460
Rivière du Moulin, at road bridge, St. Fereol parish, bridge, 971; low water.....	967
B.M. on N.W. cor. of plinth, S. side of S. door, St. Fereol church	982.8
Road, lot 314, St. Fereol parish, opp. Louis Poulin's house.....	969

Napierville County

St. Edouard-de-Napierville P.O., 180; R. C. church.....	179
St. Michel-de-Napierville, corner half mile N.E. of.....	224
St. Rémi.....	195
St. Jacques, R. C. church.....	174

Nicolet County

Ste. Brigitte-des-Saults, South branch Nicolet river, water at bridge	130
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Ottawa County

Plumbago or Twin lakes.....	345
McGregor lake.....	458
Grand lake.....	504
Rhéaume lake.....	753
Battle lake.....	754
Hull, Maple Leaf hotel.....	184
Old Chelsea, R. C. church.....	460
Simmons P.O., one mile N. of.....	416
King mountain.....	1,200
Kingsmere lake.....	758
Old Chelsea, corner half-mile S.W. of.....	438
Cousineau P.O., corner one mile E. of.....	335
Meach lake.....	580
Little Whitefish lake, water (Apr. 4, 1913) ..	472.5
Long lake South, water (Apr. 4, 1913).....	561.5
Pemichangaw lake, water (Apr. 4, 1913).....	554.6
Thirtyone-mile lake, water (Apr. 8, 1913) ..	532.7
Rat lake, water (Apr. 12, 1913).....	509.7
Bear lake, water (May 26, 1913).....	562.8
Trout lake, water (May 31, 1913).....	649.3
Little Bear lake, water (May 31, 1913) ..	615.9
Whitefish lake, water (June 9, 1913).....	637.9
Mitchell lake, water (Apr. 8, 1913) ..	528.0
Boisfranc lake, water (July, 1913) ..	577.7

Pontiac County

Wetetnagami lake.....	1,055
Makustigan lake.....	1,140
Divide between Wetetnagami and Migiskun rivers.....	1,150
Height-of-land between Migiskun and Kapitachuan rivers.....	1,295
Summit of portage between Kipawa and Douglas lakes.....	957
Douglas lake.....	852
Little Obashing lake.....	832
Forest lake.....	862

QUEBEC—SUNDRY ALTITUDES

Elevation
above mean
sea level

Pontiac County

Birch lake.....	862
Devil lake.....	834
Bastien lake.....	877
Thompson or McConnell lake.....	874
David lake.....	869
Obashing lake.....	822
Summit of road between Obashing lake and Ottawa river.....	942
Small lake at head of Snake creek, on old winter road.....	847
Second lake on Snake creek, on old winter road.....	827
Long lake, on White creek.....	852
White lake, at head of White creek.....	872
White Beaver lake (east of McMartin point).....	883
First lake on Indian portage-route to Kipawa.....	883
Height-of-land, portage-route, lac des Quinze to Abitibi.....	920
Height-of-land portage, Grand lake Victoria to Migiskun river.....	1,000

Quebec County

Beauport hills, east summit, 1,880; middle summit, 1,895; west summit.....	1,950
Quebec city and vicinity—	
St. Columban church (point Pizeau).....	144
Spencer Grange.....	223
Plains of Abraham.....	284
Mount Pleasant.....	273
Diamond Harbour martello tower.....	318
St. Johns church (Quebec).....	305

Richelieu County

St. Ours, R. C. church.....	51
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Richmond County

Stoke mountains.....	1,600-1,800
Brompton P.O.....	513
Bromptonville corner.....	469
New Rockland.....	672
St. François.....	807
Little Brompton lake.....	873

Rimouski County

Camille, mount.....	2,036
Ste. Flavie, hill six miles S.E. of.....	1,500
Bic highlands.....	1,236

Rouville County

St. Hilaire mountain.....	1,300
Hertel lake.....	586
Yamaska mountain.....	1,450

St. Hyacinthe County

St. Jude village.....	107
St. Louis-de-Bonsecours, R.C. church.....	101
Ste. Victoire village, R.C. cemetery.....	74
Rougemont mountain.....	1,260

QUEBEC—SUNDRY ALTITUDES

Elevation
above mean
sea level

St. Johns County

Roxham, corner half-mile south of	290
St. Johns, L'Acadie church	128
St. Johns, Frontenac hotel	108

Saguenay County

Tadoussac, summit one mile W.N.W. of	1,080
Tadoussac, summit two miles W.S.W. of	1,100
Seven Islands bay, range to north, west peak, 1,307; east peak	1,700
St. John, mount.	1,416
Mingan channel, summit seven miles N. of	1,000
Saddle hill	374
Mekattina highlands	685
Bradore hills	1,264
Height-of-land between Attikonak and Romaine rivers	1,750
“ between Romaine and St. John rivers	1,800
“ just west of Attikopi lake	2,400
Divide between Attikopi and Itomami rivers	1,980
Divide between Matonipi river and branch of Manikuagan river	2,390
Matonipi lake	1,640
Mushalagan lake	830
Ishimanikuagan lake	685
Shutler lake	335
Lac de la Grosse Roche	637
Catherine lake	802
Lac de l'Île au Castor	875
Barras lake	990
Junction of portage from lake Atikonipi to St. Augustin river	900
Théberge lake	95
Kekarpui lake	40
Charles lake	85
Blais lake	50
Robertson lake	330
Grenfell lake	350
Third lake	550
Arabian lake	650
Doris lake	700
Seventh lake	890
Boucher lake	1,300
Talbot lake	1,325
Lake Muskwanus	130
Lake Muskwaro	400
Source of Natashkwan river	1,451
Turgeon lake	135
St. John river, at portage, south end of canoe route to Romaine river	690
Lac Boisvert	1,105
Ternet lake	1,195
Coopman lake	1,995
Fauteux lake	2,140
Pacaud lake	2,280
Confluence of Romaine and Little Romaine rivers	2,050
Lozeau lake	2,563
Anderson lake	2,583
Sirois lake	2,618

QUEBEC—SUNDRY ALTITUDES

Elevation
above mean
sea level

Saguenay County

Lavoie lake.....	2,601
Mercier lake.....	2,638
Bélisle lake.....	2,653
Sénécal lake.....	2,653
Lac Brûlé.....	2,609
Romaine river, at portage to lake Attikonak.....	2,770
Lake Tshinikoman.....	2,980
Romaine river, headwaters, four miles above lake Long.....	3,000
Confluence of Rivière à l'Eau Dorée and Moisie river.....	127
Lac à l'Eau Dorée.....	330
Villebois lake.....	642
Delamarre lake.....	1,148
Nipissis lake.....	1,315
Dubuc lake.....	1,344
Favre lake.....	1,413
Lacs Siamois.....	1,711

Shefford County

Granby, Yamaska river, water, 305; post office.....	400
Shefford Mountain village.....	474
North Shefford, corner.....	672
Shefford Vale P.O.....	418
Roxton Pond, corner.....	416
Milton P.O.....	340
Savage Mills, stream, water, 450; village.....	522
Waterloo lake, water.....	682
North Stukely, corner.....	1,026

Sherbrooke County

Orford mountain.....	2,860
Bare mountain.....	1,520
Carbuncle mountain.....	1,270
Brompton lake.....	784
Long lake.....	1,026
Orford lake.....	936
Fraser lake.....	865
Mud lake.....	784
Cherry River village, Cherry river, water, 749; bridge, 751; P.O.....	774

Soulanges County

St. Polycarpe, R. C. church.....	181
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Stanstead County

East Hatley.....	1,006
Magog, Main street.....	706
Little Magog lake, water.....	637

Temiscouata County

Hare island, summit.....	323
Wissick, mount.....	1,033

QUEBEC—SUNDRY ALTITUDES

Elevation
above mean
sea level

Timiskaming County

Shabogama lake, low water.....	990
Obaska lake.....	1,022
Simon lake.....	1,055
Abitibi, lake.....	830
Agotawekami lake.....	875
Obikoba, lake.....	852
Mattawagosik lake.....	911
'About a mile and a half south-west of lake Mattawagosik, two remarkable hills rise to'.....	1,600
Height-of-land between Lac des Quinze and Abitibi river.....	914
Seals-home lake.....	964
Barrier lake, high water (1909), 869; water.....	866
Opasatika lake, high water (1909), 871; water.....	867
Island lake (discharges to Hudson bay at high water).....	911
Lake "A".....	878
Lake "B".....	879
Lake "C".....	880
Crooked lake.....	878
Kekekaskak lake.....	879
Shortcut lake.....	905
Kekek lake.....	960
Long lake.....	976
Wabaskus lake.....	979
Kewagama lake, high water (1909), 959; water (July 23, 1910).....	956
Askikwaj lake.....	977
Lake Expanse, (June 21, 1910).....	856
Height-of-land between Opasatika and Abitibi waters.....	914
Height-of-land between Kinojevis river and Seals-home lake.....	965
Height-of-land on Muskrat portage.....	1,003
Roger lake.....	900

Ungava and Labrador Coast

Lat. Long.

Cape St. Charles.....	53 13	55 38	654
Sophia Harbour hill.....	52 25	55 43	588
Granby island.....	52 33	55 43	461
Ship Harbour island.....	52 39	55 45	721
Cape St. Michael hills.....	52 40	55 49	895
Square island.....	52 46	55 51	497
Cape Bluff.....	52 50	55 49	719
Stony island.....	53 00	55 47	670
Hawke island.....	53 05	55 46	825
Partridge head.....	53 10	55 45	551
Mealy mountains, north shore Sandwich bay.....	53 42	57 15	1,482
Cape Porcupine, Square hill, thirteen miles west of.....	53 55	57 20	1,000
George island.....	54 15	57 20	750
Cape Harrison.....	54 55	57 56	1,065
Ragged island.....	55 00	58 13	640
Double island, peak nine miles S. of.....	54 51	58 22	2,280
Double island, peak eleven miles S.W. of.....	54 42	58 32	2,420
Monkey hill (Altagaiyavik).....	55 00	59 14	2,170
Kaipokok hill.....	55 09	59 26	895
Spracklins (Kikkertaksoak) island.....	56 08	60 45	465
Tunungayualuk island.....	56 08	61 06	800

QUEBEC—SUNDRY ALTITUDES

Lat. Long. Elevation
above mean
sea level

Ungava and Labrador Coast

Ford Harbour hills.....	56 28	61 24	1,000
Pownal or Paul island.....	56 32	61 32	1,195
Newark (Aulatsivik) island.....	56 55	61 15	2,733
Kiglapait mountain.....	57 07	61 25	2,000
Table hill (Okkak).....	57 45	61 40	2,000
Bishops Mitre.....	57 50	61 55	3,000
White Bear island (Nanuktut).....	57 55	61 40	1,600
Finger hill.....	58 00	62 10	2,500
Watchman island.....	58 15	62 05	700
The Domes.....	58 27	62 40	2,000
Uivuk mountain.....	58 30	62 35	1,000
Kikkertaksoak (Big island).....	58 33	62 42	700
Mount Blow-me-down.....	58 48	63 05	3,000
Nachvak mountain.....	59 00	63 50	3,400
*Nachvak inlet.....	59 05	64 00	
Razorback, mount.....	59 12	63 25	3,000
Nanuktok (White Bear cape).....	59 20	63 25	1,000
Kangardlirarsuk, four peaks.....	59 35	63 50	5,000-6,000
Mount Bache.....	59 50	64 05	2,150
†Cape Chidley, summit behind.....	60 30	64 30	1,500
Cape Wolstenholme range.....	62 30	77 00	2,000
Button island.....	60 45	64 30	1,500
Mansfield island, 'at one place four or five miles inland, rise to an elevation of about.....	62 00	80 00	300
Mishikamau lake.....	54 00	64 00	1,650
Nichikun lake.....	53 05	70 45	1,760
Kaniapiskau lake.....	53 50	69 20	1,850
Itomami lake.....	53 00	69 20	1,940
Clearwater lake.....	56 15	75 15	790
Lower Seal lakes.....	56 30	74 30	860
Divide between Nastapoka and Larch rivers.....	56 42	73 53	890
Natuakami lake.....	57 13	72 20	520
Confluence of Larch and Kenogamitsuk rivers.....	57 21	71 15	325
Confluence of Koksoak and Larch rivers.....	57 38	69 45	125
Menihék lakes.....	54 00	66 40	1,750
Mount Allan, Ottawa island.....	57 49	80 02	1,860

Vaudreuil County

Rigaud mountain.....	700
Mount Oscar P.O.....	353
Verte-Vallée.....	230
Mongenais F.O.....	226
Peveril, corner one-eighth mile N. of.....	203
Ste. Marthe P.O.....	202

Wolfe County

Ham mountain.....	2,000
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Yamaska County

Yamaska, Yamaska river, water (June 1, 1910), 19; R.C. church.....	58
St. Joachim-de-Courval P.O.....	227
Sourcy P.O.....	144

*The mountains on either side, immediately overlooking it rise from 1,500 to 3,400 feet, but, a few miles inland, especially on the south side, they appear to attain an altitude of 5,000-6,000.

†After passing the strait of Belleisle the coast continues high and rugged..... the elevation of the land near the coast maybe said to increase gradually in going northward, until 70 miles of cape Chidley, where it attains a height of about 6,000 feet. Beyond this it again diminishes to the cape [Chidley], where it is 1,500 feet.

RIVER ST. LAWRENCE

	Sq. miles	Sq. miles
Area between Galops rapids and point des Monts (omitting Ottawa and Champlain basins):		
Area of water surface.....		5,395
(Area, lake St. Francis, 70 sq. miles; lake St. Louis, 57 sq. miles)		
Area of watershed—		
Quebec.....	124,345	
Ontario.....	620	
New York.....	3,805	
Vermont.....	615	
		129,385
Total area of basin, excluding Ottawa and Champlain basins		134,780
Total area of basin, including Ottawa and Champlain basins		199,610

Miles from Quebec	Elevation above mean sea level
0-0 Lévis—	
Coping of graving dock, general level.....	17.86
Zero of gauge, cut in stone facing entrance to dock.....	-14.76
Zero of Dr. W. Bell Dawson's self-registering gauge (1895)...	-14.76
Centre of inner invert, close to caisson of dock.....	-14.69
Stone floor of dock, close to inner invert.....	-15.79
Admiralty low water datum.....	-6.94
Highest water observed during navigation season (Nov. 5, 1884)	16.41
Flood (Jan., 1838).....	46.13
Standard low water*.....	-7.66
Standard high water†.....	15.69
Ordinary high water, high water season.....	8.08
Ordinary high water, low water season.....	6.91
Ordinary low water, high water season.....	-2.36
Ordinary low water, low water season.....	-4.84
Mean tide level, low water season.....	1.00
Mean tide level, high water season.....	2.96
Mean tide level, average (1894-1902).....	1.64
Steckel's datum.....	-5.98

*The plane of standard low water for the St. Lawrence between Quebec and Montreal, corresponds to a stage of 16 feet above the lower mitre sill of old lock No. 1 of Lachine canal and is 0.08 feet below the equivalent plane of standard low water deduced in a similar manner as the plane of standard low water for the Great lakes. The equivalent plane would be the plane at or below which monthly mean water has stood not more than an aggregate of ten months during the season of navigation out of the aggregate of eighteen lowest monthly mean waters occurring during the period of thirty-six years—1860 to 1895.

Dredging for the ship channel has, undoubtedly, reduced the levels of the St. Lawrence, particularly between Three Rivers and Montreal, reaching the maximum at the latter point though no data respecting the exact amount are available.

†The plane of standard high water is 'the highest water possible during the season of navigation (at springs) with weather and atmospheric pressure in a normal condition.'

Miles from Quebec	RIVER ST. LAWRENCE	Elevation above mean sea level
0.0	Quebec—	
	Admiralty bench mark, east side, gateway of Marine and Fisheries building	21.01
	Zero of Harbour Commissioner's gauge	-6.01
	Coping of Louise embankment	18.00
	Low water datum used by Maxwell, according to chart 319	-6.99
6.5	Wharf at mouth of Chaudière river, floor level	10.6
11.7	St. Nicholas, Baker's wharf, floor level	13.6
15.8	St. Augustin, flood (1865)	20.22
21.8	Pointe aux Trembles—	
	Grenier's wharf	14.3
	Flood (1884)	20.57
35.5	Pointe Platon—	
	Wharf, floor level	15.1
	Flood (1884)	20.25
39.7	Deschambault—	
	Foot of Richelieu rapids, standard low water	-4.23
	Flood (1884)	22.13
	Floor level of wharf	14.2
42.0	Barre Boulard—	
	Head of Richelieu rapids, standard low water	-0.81
	Highest known flood	26.8
47.2	Grondines—	
	Standard low water	0.17
	Standard high water	20.41
	Highest known flood	27.1
	Floor level of wharf	14.3
	Top of stone step at northwest corner of R. C. church	42.33
52.1	St. Jean-des-Chaillons—	
	Zero of gauge, new wharf	-22.65
	Standard low water	2.05
	Standard high water	21.42
	Highest known flood	27.3
	Floor level of Levasseur's wharf	15.8
55.0	Ste. Anne-de-la-Pérade, flood (1865)	27.25
59.4	Batiscan—	
	Standard low water	6.25
	Standard high water	24.00
	Flood (1865)	28.46
	Flood (1885)	25.51
	Floor level of Brunelle's wharf	18.3
64.0	Road bridge over Champlain river, flood (1865)	28.47
66.7	Champlain—	
	Standard low water	7.35
	Standard high water	24.70
	Highest known flood	28.50
	Floor level of Gagnon's wharf	19.0
73.3	Bécancour, flood (1865)	29.45
78.7	Three Rivers—	
	Standard low water	9.90
	Standard high water	25.80
	Highest known flood	30.1
	Zero of gauge (nearly)	9.8
	Doucet Landing, floor level of outside wharf	19.0

Miles from Quebec	RIVER ST. LAWRENCE	Elevation above mean sea level
85.0	Nicolet—	
	Standard low water	9.95
	Standard high water	27.00
	Highest known flood	31.9
	Port St. Francis wharf, general floor level	20.3
	St. François-du-Lac wharf, high water	27.73
86.7	Lake St. Peter, at Pointe-du-Lac, flood (1865)	32.9
105.9	Lake St. Peter, at head	
	Standard low water	11.55
	Standard high water	30.50
108.2	Yamaska lock—	
	Lower sill	7.52
	Upper sill	7.60
	Coping, N.W. cor., 20.32; N.E. cor., 20.44; average	20.38
	Flood (1887)	27.28
115.6	Sorel—	
	Standard low water	12.72
	Standard high water	27.94
	Flood (1865)	31.46
	R. and O. Co.'s wharf, general floor level	27.4
	Zero of Montreal Harbour Commissioner's gauge	-5.08
130.7	Contrecoeur—	
	Standard low water	13.81
	Standard high water	29.14
	Highest known flood	36.57
	R. and O. Co.'s wharf, general floor level	27.15
138.3	Verchères—	
	Standard low water	15.31
	Standard high water	30.13
	Highest known flood	36.61
	R. and O. Co.'s wharf, general floor level	27.4
146.8	Varennes—	
	Standard low water	16.82
	R. and O. Co.'s wharf, general floor level	28.4
147.3	Half-mile above Varennes wharf—	
	Highest known flood	38.73
151.2	Boucherville—	
	Standard low water	17.88
	Highest known flood	38.8
	R. and O. Co.'s wharf, general floor level	29.4
157.2	Longueuil—	
	Standard low water	19.04
	Standard high water	34.48
	Highest known flood	45.16
	Floor level of new Government wharf	28.8
159.3	St. Mary current—	
	At foot, standard low water	19.72
	At head, standard low water	20.72
	Victoria bridge—	
	Lowest known water during season of navigation	27.9
	Extreme high water	51.1
160.8	Lachine canal—	
	Old lock No. 1, west side of lower sill	5.41
	Old lock No. 1, coping, 73 ft. from S. upper gate	36.94
	New lock No. 1, centre of lower sill	3.48
	New lock No. 1, coping, 96 ft. from S. upper gate	36.40
	Extreme low water, Oct., 1895 (15.10 ft. on sill of new lock)	18.58

ST. LAWRENCE AND GREAT LAKES

4

Miles from Quebec	RIVER ST. LAWRENCE	Elevation above mean sea level
	Flood (1886)	49.66
	Old lock No. 3, coping	58.61
	Old lock No. 4, coping	67.58
168.2	New lock No. 5, lower sill, 51.65; upper sill	50.59
	New lock No. 5, coping, lower end, 74.27; upper end	74.23
	Old lock No. 5, lower sill, 56.40; upper sill	56.62
	Old lock No. 5, coping, lower end, 74.24; upper end	74.27
	Old lock No. 5, standard high water (flood, May, 1876)	73.75
	Old lock No. 5, extreme low water, Nov. 9, 1895 (8.03 ft. on sill, old lock)	64.65
165.6	Laprairie—	
	Lowest known water during season of navigation	33.9
	Highest known water during season of navigation	38.6
	Floor level of R. and O. Co.'s wharf	37.5
169-184	Lake St. Louis—	
	At Lachine, extreme high water	74.42
	At Lachine, extreme low water (Nov., 1895)	65.37
184.6	Soulanges canal—	
	Coping, inner edge, end of entrance pier	70.52
	Lock No. 1, lower sill, 51.46; coping, N. side of upper gates	92.96
	Lock No. 1, extreme low water (Nov. 5, 1895)	66.29
	Lock No. 1, standard low water	67.64
	Lock No. 1, water above lock	89.96
184.9	Lock No. 2, lower sill, 74.96; coping, at upper gates	116.46
	Lock No. 2, water above lock	113.46
185.1	Lock No. 3, lower sill, 98.39; coping, at upper gates	139.89
	Lock No. 3, water above lock	136.89
187.8	Lock No. 4, lower sill, 122.00; upper sill, 134.00; coping, upper end	158.00
	Guard lock, sill, 134.76; N. coping, at upper gates	157.76
	Guard lock, extreme low water (Nov. 9, 1895)	149.32
	Guard lock, standard low water	150.94
198.3-229.3	Lake St. Francis—	
	At Valleyfield, high water (May, 1870)	154.86
	At Valleyfield, low water (1895)	150.94
	Cornwall canal—	
229.7	New lower entrance lock, lower sill, 137.45; coping, 8 in. from face of wall, N. side of lower gates	166.85
	New lower entrance lock, standard high water (1870)	155.45
	New lower entrance lock, extreme low water (Nov. 21, 1895)	150.95
	Old lower entrance lock, lower sill	143.03
	Bolt in coping, old lock, N. of new lock 18, 2 ft. N. of S. edge and 44 ft. E. of W. edge (U. S. Lake Survey B. M. No. C)	187.98*
	Bolt, 0.63 ft. S. of front face and 1.9 ft. from rear edge of new entrance lock (U. S. Lake Survey B. M. No. A)	166.73*
	Bolt, 3 ft. E. of W. edge and 44 ft. S. of N. face of S. wall of old lock 15 (U. S. Lake Survey B. M. No. B)	162.59*
	St. Regis—	
	Bench mark A, northwest corner, R. C. church	169.85†
	Bench mark B, near southwest corner of priest's house	166.88†
240.2	New upper entrance lock, lower sill, 184.28; coping	204.78
	Old upper entrance lock, lower sill	190.70
	Old upper entrance lock, extreme low water (Nov. 9, 1895)	197.70
	Old upper entrance lock, standard low water	200.35

*U. S. Lake Survey elevations for these bench marks are: "C," 188.28; "A," 167.03; "B," 162.89
†U. S. Coast and Geodetic survey, adjustment of 1899.

Miles from Quebec	RIVER ST. LAWRENCE	Elevation above mean sea level
245.8	Farran Point canal—	
	New lock, lower sill.....	181.48*
	Old lock, lower sill, 191.94; coping.....	209.68
	Old lock, standard high water (1870).....	202.77
	Old lock, extreme low water (Nov. 9, 1895).....	197.77
	Morrisburg canal—	
256.8	New lower entrance lock, lower sill, 195.05; coping.....	226.61
	Old lower entrance lock, lower sill.....	203.99
	Old lower entrance lock, extreme low water (Nov. 23, 1895)...	207.47
260.3	New upper entrance lock, lower sill, 207.50; coping.....	229.50
	Old upper entrance lock, lower sill.....	215.50
	Old upper entrance lock, extreme low water (Nov. 9, 1895)...	220.00
	Old upper entrance lock, standard low water.....	222.68
	Galops canal—	
264.6	New lower entrance lock, lower sill.....	207.75
	Old lower entrance lock, lower sill, 216.69; coping.....	238.35
	Old lower entrance lock, standard high water (1870).....	232.36
	Old lower entrance lock, extreme low water (Nov. 9, 1895)...	223.36
269.9	Lift lock at Cardinal, lower sill, 220.65; coping.....	244.21
271.3	New upper entrance lock, lower sill, 226.88; coping.....	248.50
	Old upper entrance lock, lower sill.....	233.32
	Old upper entrance lock, standard high water (1870).....	245.99
	Old upper entrance lock, extreme low water (Nov. 9, 1895)...	240.06
	Old upper entrance lock, standard low water.....	241.63
280.0	Prescott, low water (November, 1895).....	241.17
	Ogdensburg, N.Y.—	
	Bench mark A, southwest corner of armory.....	277.90†
	Bench mark B, southeast face of town hall and opera house...	280.74†
	Bench mark C, northeast corner of custom house.....	289.88†
	Bench mark D, coping stone, north face of lighthouse.....	251.02
	Top of door-sill, in east face of lighthouse.....	251.38†
	Zero of water-gauge at lighthouse.....	244.63†
	Morristown, N.Y.—	
	Bench mark A, northwest corner of Gillies Bros. office.....	272.69
	Bench mark B, foundation of warehouse opposite B M A....	271.29
	Bench mark C, south wing of Henry Chapman's residence...	258.00
341.7	Kingston—	
	Coping of graving dock.....	251.50
	Point of broad arrow, cut in top of dock coping 6 inches from face of wall at inner water gauge, west side of dock.....	251.40
	Zero of water-gauge at Kingston graving dock.....	245.00‡
	Zero mark on martello tower.....	245.00
	Mitre sill of graving dock, lowest point.....	229.5
	Tibbet point, bench mark 35, north side of lighthouse.....	263.85†

*From upper end of Cornwall canal to Prescott, the altitudes are based on the levels of the Canadian Deep Waterways Commission, with a uniform deduction of 1.83 feet—the correction at Cornwall, as determined by the precise levels of the Dept. of Public Works.

†By levels of U.S. Lake Survey.

‡Zero at Kingston is the same as zero at Toronto, and was determined during August and September, 1887, by a full month's simultaneous readings. The zero mark cut on the entrance works of the graving dock is the level established under my direction, and represents the mean low water level of the lake at Kingston. A similar zero mark is cut on the base of the martello tower at Swift's wharf. The sill of the dock at Kingston is curved, and its lowest point is 15.5 feet below zero, and coping level is 6.5 above. (Letter from H. F. Perley to Thos. Monro, Jan. 22, 1895.)

A comparison made by the U. S. Deep Waterway Commission, 1897, indicates that it is 0.77 feet above the zero of the Oswego gauge, or 244.92.

LAKE ONTARIO*

Figure 1
above page
30, facing 42

Latitude $43\frac{1}{2}^{\circ}$ N. to $44\frac{1}{2}^{\circ}$ N.; longitude 76° W. to 80° W. Length, steamer track Burlington Bay light to head of St. Lawrence river (Tibbett point), 180 miles and, from Port Dalhousie to Tibbett point, 160 miles; length, 193 miles on right line (Burlington bay to Sacketts harbour); breadth, $5\frac{1}{2}$ miles on right line (about meridian $77^{\circ} 35'$ W.). Maximum depth, 738 feet

Area of water surface

	Sq. miles
Niagara river	5
St. Lawrence river to Galops rapids	58
Lake Ontario	53

Area drained (including Niagara river below Niagara falls, and St. Lawrence river to head of Galops rapids)

	Sq. miles
Ontario	1,349
New York	1,895
Total area of basin	25,737

Rainfall, average annual

Mean surface below mean surface of lake Erie 34.1 in.
Discharge of St. Lawrence river at mean stage 1911 (246-21) is 246,000 cubic feet per second; increase in discharge is 23,700 cubic feet per second.

Average date of opening of navigation at Oswego, N.Y., April 15; closing, Dec. 17.

High water, July, 1815	247.04
Extreme high water, July, 1838, highest on record	248.98
High water, June, 1853	248.40
" June, 1858	248.90
" July, 1859	248.93
" May, 1862	248.91
" May, 1870	248.98
" July, 1876	248.39
" May, 1886	248.68
Standard high water	248.98†
Low water, March, 1816	244.21
" March, 1819	243.46
" March, 1820	242.96
Extreme low water, March, 1825, lowest on record	242.38
Low water, March, 1846	245.15
" January, 1857	244.39
" January, 1868	244.54
" January, 1873	244.29
" February, 1881	244.75
" December, 1891	244.46
" February, 1892	244.51
" November, 1895	243.44

*The data relating to the Great lakes have been extracted from the *Report of the United States Deep Waterways Commission, 1896*, from *Bulletin No. 24, Survey of the Northern and North-western Lakes*, and from information furnished by Col. J. C. Sanford, U. S. Engineers.

†Standard high water for lake Ontario has been taken as the monthly mean water of July, 1838, at Oswego, which is the highest monthly mean water level during the period covered by the above record.

LAKE ONTARIO

Elevation
above mean
sea level

Standard low water (U.S. Deep Waterways Commission, corrected to Dec., 1914).	244.38*
" water (U.S. Lake Survey).....	243.00
Mean water, 1860 to 1900.....	246.25
" 1860 to 1914.....	246.21
" 1900 to 1914.....	246.69

The following is the record:—

Eighteen lowest monthly mean water levels above the zero of the Oswego gauge (elevation, 244.15 feet above mean tide) during the period 1860 to 1914.

Year	Month	Reading	Year	Month	Reading
		Feet			Feet
1872	December.....	+0.23	1896	February.....	+0.20
1873	January.....	+0.19		October.....	+0.11
1895	March.....	+0.21		November.....	—0.15
	August.....	+0.22		December.....	—0.13
	September.....	—0.12	1897	January.....	—0.25
	October.....	—0.46		February.....	—0.20
	November.....	—0.71		March.....	+0.18
	December.....	—0.68	1901	November.....	+0.16
1896	January.....	—0.32	1902	February.....	+0.18

The reading +0.23 of December, 1872, determines the plane of standard low water and its elevation is $244.15 + 0.23$, or 244.38 feet above mean tide at New York.

The record of the period of fifty-five years, from 1860 to 1914, shows the following:—

	Feet
Range in mean annual variation.....	1.43
Mean annual range.....	1.95
Greatest annual range (in 1867).....	3.65
Least annual range (in 1907).....	0.79
Highest monthly mean water (in May, 1870).....	248.98 ¹
Lowest monthly mean water (in Nov. 1895).....	243.44
Greatest range in monthly mean waters.....	5.54
Highest annual mean water (in 1862).....	247.66
Lowest annual mean water (in 1895).....	244.32
Greatest range in annual mean waters.....	3.34

* The plane of standard low water is the plane at or below which monthly mean water has stood not more than an aggregate of ten months during the season of navigation (which excludes the months of January, February and March) out of the aggregate of eighteen lowest monthly mean waters occurring during the period of fifty-five years, 1860 to 1914.

LAKE ONTARIO

Elevation
above mean
sea level

As regards annual variation the lake is generally highest in the month of June and lowest in the month of December.

Bench marks—

Bench mark A, bolt in pier near N.W. cor. U.S. storehouse, Third St., Oswego	251.90*
Bench mark No. 1, Charlotte, on lighthouse	283.17*
Bench mark A, Port Dalhousie, stone post, cor. Canal and Lock streets	263.89*
Bench mark B, Port Dalhousie, top course, E. wall of canal	257.91*
Bench mark C, Port Dalhousie, foundation, customs collector's office	258.09*
Bench mark No. 1 (1874), Sacketts Harbour, N.Y.	251.96*
Port Dalhousie, zero of gauge	257.91*
Port Dalhousie, lower mitre sill	230.06*
Toronto, zero of Harbour Commissioner's gauge	245.00
Oswego, N.Y., zero of U.S. Engineer's water gauge	244.15*
Charlotte, N.Y., zero of water gauge	248.98*

NIAGARA RIVER

Queenstown, Ont., standard low water	244.35
" standard high water	248.98
" mean water (1860-1914)	246.18
Schlosser, N. Y., standard low water	561.27
" standard high water	563.52
" mean water (1860-1914)	562.09
Tonawanda, N. Y., standard low water	564.03
" standard high water	566.28
" mean water (1860-1914)	564.85
Bridgeburg, Ont., standard low water	566.73
" standard high water	568.98
" mean water (1860-1914)	567.55

LAKE ERIE

Latitude $41\frac{1}{2}^{\circ}$ N. to 43° N.; longitude $78\frac{1}{2}^{\circ}$ W. to $83\frac{1}{2}^{\circ}$ W. Length, steamer track, Detroit River lighthouse to Buffalo, 236 miles; length, 241 miles on right line (Buffalo via point Pelee to west end); breadth, 57 miles on right line, (Ashtabula to Port Talbot). Maximum depth, 210 feet.

	Sq. miles	Sq. miles
Area of water surface		9,968
Area of watershed—		
Ontario	5,480	
Ohio	11,950	
Michigan	2,900	
New York	2,210	
Indiana	1,270	
Pennsylvania	820	
		3,480
Total area of basin		34,448

	Sq. miles
Area of islands in lake Erie	55
" Niagara river	29
Rainfall, average annual	36 inches
Mean surface below mean surface of lake Huron	8.65 feet
Mean surface above mean surface of lake Ontario	326.34 feet
Discharge of Niagara river at mean stage of lake Erie, 1860-1914 (572.85) is 210,000 cubic feet per second; increase in discharge per foot rise of lake is 22,100 cubic feet per second. Average date of opening of navigation at Cleveland, Ohio, March 23; average date of closing, Dec. 23.	

*By levels of U.S. Lake Survey, adjustment of 1903

LAKE ERIE

Elevation
above mean
sea level

Extreme high water, highest on record, (June, 1838)	575.11
High water, June, 1858	574.97
" April, 1859	574.61
" June, 1862	574.42
" July, 1870	573.76
" June, 1876	574.52
" June, 1886	573.91
Standard high water	575.11
Extreme low water, lowest on record (1810 and 1811)	569.11
Low water, August, 1819	569.36
" August, 1820	570.07
" October, 1841, and March, 1846	570.64
" January, 1857	571.50
" February, 1868	571.04
" January, 1873	571.16
" January, 1881	571.61
" November, 1895	570.70
Standard low water (U.S. Deep Waterways Commission, corrected to Dec., 1914)	571.19*
Standard low water (U.S. Lake Survey)	570.00
Mean water, 1860 to 1900	572.68
" 1860 to 1914	572.55
" 1900 to 1914	572.18
Bench marks—	
Zero of gauge, Port Colborne	580.61
Upper mitre sill "	587.47
Bench mark, west side, S.W. corner of custom house (1875), Port Colborne	584.48
Bench mark, foundation of steeple, Baptist church, Port Colborne	580.28
Bench mark, foundation, south side, church of England, Port Colborne	578.83
Bench mark No. 2 (1875) Gibraltar, on door-sill of lighthouse	585.04
Bench mark at Buffalo on lighthouse	590.10
Bench mark at Cleveland, top of lock wall, Ohio canal (B.M. No. 1)	581.41
Bench mark No. 1 (1873), Erie, Pa., on top of stone post	575.39
Bench mark, Amherstburg, Ont., spike in stump	579.17

The record for fifty-five years, from 1860 to 1914, shows the following:—

	Feet
Range in mean annual variation	1.24
Mean annual range	1.56
Greatest annual range (in 1892)	2.28
Least annual range (in 1895)	.87
Highest monthly mean water (in June, 1876)	574.52
Lowest monthly mean water (in February, 1902)	570.63
Greatest range in monthly mean waters	3.89
Highest annual mean water (in 1876)	573.70
Lowest annual mean water (in 1895)	571.17
Greatest range in annual mean waters	2.53

As regards annual variation the lake is generally highest in the month of June and lowest in the month of December.

*The plane of standard low water is 13.72 feet above the upper mitre sill of entrance lock Welland canal at Port Colborne, and 10.39 feet above the upper mitre sill of the guard lock Erie canal at Black Rock

elevation
above mean
sea level

DETROIT RIVER*

Elevation
above mean
sea level

575-11	Bench marks—	
574-97	U.S. bench mark, Detroit (1871) on lighthouse depot	584-815
574-61	U.S. bench mark, Detroit Junction (1877), M C R.R. shops	592-912
574-42	Detroit City datum	480-33
573-76	Standard low water	573-87
574-52	Standard high water	577-65
573-91	Mean water (1860-1895) deduced from lake Erie	575-45
575-11	Mean water (1860-1914) " " " "	575-09
569-11	High water, 1838	577-65
569-36	" July, 1853	576-58
570-07	" June, 1858	577-50
570-64	" July, 1859	577-00
571-50	" July, 1870	576-36
571-04	" July, 1876	577-08
571-16	Low water, March, 1819	570-98
571-61	" October, 1841	571-50
570-70	" January, 1857	574-33
571-19*	" February, 1868	573-69
570-00	" January, 1869	573-98
572-68	" January, 1873	573-99
572-55	" January, 1881	574-14
572-18		

LAKE ST. CLAIR

Latitude $42\frac{1}{2}^{\circ}$ N. to $42\frac{1}{4}^{\circ}$ N; longitude $82\frac{1}{2}^{\circ}$ W. to 83° W. Length, steamer track, lighthouse at southwest end of St. Clair Flats canal to Windmill Point lighthouse, 17 miles; length, 26 miles (on right line about $82^{\circ} 45'$ W); breadth 24 miles (on right line about parallel $42^{\circ} 25'$).

580-61	Area of water surface	Sq. miles
587-47		503
584-48	Area of watershed of river and lake St. Clair and Detroit river—	
580-28	Ontario	4,160
578-83	Michigan	2,160
585-04	Total area of watershed	6,320
590-10		
581-41	Area of islands	80
575-39	Average annual rainfall	35 inches
579-17	Average date of opening of navigation at St. Clair Flats lighthouse, April 4;	
	average date of closing, Dec. 15.	

At mean stage (575-67) the discharge of lake St. Clair at St. Clair Flats is 207,000 cubic feet per second. Increase in discharge per foot rise of lake Huron, 22,800 cubic feet per second.

Standard low water	574-29†
Standard high water	578-07
Mean water, 1860-1914	575-64

ST. CLAIR RIVER

At Sarnia, standard low water	578-62
" standard high water	583-36
" mean water, 1875-1914	579-44

*Elevations of water in Detroit river are for foot of Mt. Elliott Ave, Detroit.

†Standard low water for lake St. Clair has been determined by adding to the standard low water for the Detroit river at foot of Mount Elliott avenue, the mean slope in the Detroit river between Mount Elliott avenue and lake St. Clair during the months of June and July, 1895.

LAKE HURON

Latitude 43° N. to 46½° N.; longitude 79½° W. to 84½° W. Length, steamer track, Detour Passage to Fort Gratiot 220 miles; length, steamer track, strait of Mackinac to Fort Gratiot 243 miles; length, 206 miles on right line (point Harris to Drummond island); breadth, 101 miles, on right line (about 44° 35' N.)

Maximum depth.....	750 feet
Area of water surface.....	Sq. miles Sq. miles
Area of watershed.....	22,978
Ontario.....	35,400
Michigan.....	16,700
	52,100
Total area of basin.....	75,078
Area of detached bays, etc.—	
Georgian bay.....	5,600
North channel.....	1,600
St. Mary river.....	150
Saginaw bay.....	1,050
Total area.....	8,400
Area of islands.....	1,700

Rainfall, average annual.....	32 inches
Mean surface below mean surface of lake Superior.....	21.07 feet
Mean surface above mean surface of lake Erie.....	8.65 feet

Discharge of St. Clair river at mean stages of lake Huron, 1860-1914 (581.20), and of lake St. Clair at St. Clair flats (575.67) is 207,000 cubic feet per second. Increase in discharge per foot rise of lake, 22,800 cubic feet per second.

Average date of opening of navigation at Fort Gratiot, Mich., April 6; average date of closing, Mich., Dec. 19.

Lakes Huron and Michigan were assumed by the engineers of the United States Lake Survey to have the same mean level for the following reasons: 'The slope of the St. Clair river, which carries off the surplus waters not only of lake Huron, but also of lakes Superior and Michigan, is at St. Clair, about 0.50 inch per mile, the cross-section of the river there being 68,150 square feet. Now, at Mackinac, the smallest water cross-section is about 1,558,800 or 22.87 times that of the St. Clair river at St. Clair, and this greater cross-section has to deliver the surplus water of but one of the three great lakes drained by the St. Clair river. If we suppose lake Michigan has an outflow equal to one-third the discharge of the St. Clair river then the water slope at Mackinac would be about 1/2000 that at St. Clair or .00005 inch per mile. As the narrow portion of the strait of Mackinac is only 10 miles long this slope gives an insignificant fall. This result is of course a very rough approximation, as there are no experimental data for the flow of water under such gentle slopes, but it shows that the permanent difference of level between lakes Huron and Michigan is insignificant in comparison with the differences produced by winds or by different atmospheric pressures, and that its average value is probably less than 0.1 foot.'

'In regard to this assumption it should be noted that, taking the twenty-five years—1871 to 1895—the average of the monthly means for the two lakes shows lake Michigan to be from 0.40 to 0.11 foot above lake Huron for the months September to January, inclusive; at about the same level for February; from 0.05 to 0.12 foot below from March to June inclusive, and at about the same level during July and August.'

*Report, United States Lake Survey, Professional Papers, Corps of Engineers, U.S.A., No. 2, pp. 607 and 608.

† Report of U.S. Deep Waterways Commission, 1896, pp. 77 and 78.

LAKE HURON

Elevation
above mean
sea level

Extreme high water, highest on record (July, 1838)	584.69
High water, November, 1858	583.90
" July, 1859	584.04
" June, 1862	583.02
" September, 1870	582.57
" July, 1876	583.66
" June, 1886	583.64
Extreme low water, lowest on record (Feb., 1819)	578.02
Low water, December, 1841	580.26
" February, 1847	579.19
" January, 1857	581.14
" February, 1866	580.23
" January, 1873	579.87
" January, 1881	581.16
" December, 1891	579.91
" January, 1892	579.93
" December, 1895	579.02
Standard high water, highest on record (July, 1838)	584.69
Standard low water (U.S. Deep Waterways Commission, corrected to Dec., 1914)	579.95
Standard low water (U.S. Lake Survey)	578.50
Mean water, 1875-1900	581.39
" 1875-1914	581.08
" 1900-1914	580.49
" 1860-1914	581.20
Bench marks—	
Bench mark No. 2 (1875), cross on stone at Lakeport, Mich.	591.30
Bench mark (1873) at Port Austin, Mich.	590.97

The record for the period of forty years, from 1875 to 1914, shows the following:

	Feet
Range in mean annual variation	0.97
Mean annual range	1.15
Greatest annual range (in 1876)	1.94
Least annual range (in 1879)	.59

Highest monthly mean water (in July, 1876)	583.66
Lowest monthly mean water (in December, 1895)	579.02

Greatest range in monthly mean waters	4.64
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Highest annual mean water (in 1886)	583.08
Lowest annual mean water (in 1896)	579.53

Greatest range in annual mean waters	3.55
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As regards annual variation the lake is generally highest in the month of July and lowest in the months of December and February.

LAKE MICHIGAN

Elevation
above mean
sea level

Latitude $41\frac{1}{2}^{\circ}$ to $46\frac{1}{2}^{\circ}$ N.; longitude $84\frac{1}{2}^{\circ}$ to 88° W. Length, steamer track, Chicago to strait of Mackinac, 321 miles; length (right line), from about longitude $87^{\circ} 30'$, south end, to $85^{\circ} 45'$ north end, 307 miles; breadth (right line) on about $45^{\circ} 25'$ north latitude, 118 miles. Maximum depth, 870 feet.

Area of water surface.....	Sq. miles 22,336
Area drained.....	43,463
Total area of basin.....	65,800

Rainfall, average annual..... 33 inches

Mean surface below mean surface of lake Superior 21.07 feet.

Average date of opening of navigation at strait of Mackinac, April 17; average date of closing, January 9.

High water, November, 1858.....	583.90
" July, 1859.....	584.04
" June, 1862.....	583.02
" July, 1871.....	582.71
" July, 1876.....	583.49
" June, 1886.....	583.57
Standard high water, highest on record (July, 1838).....	584.69
Extreme low water, lowest on record (Feb., 1819).....	578.02
Low water, December, 1841.....	580.26
" February, 1847.....	579.19
" January, 1857.....	581.14
" February, 1866.....	580.23
" January, 1873.....	579.87
" January, 1881.....	580.90
" January, 1892.....	579.86
" December, 1895.....	578.98
" January, 1911.....	579.20
Standard low water (U.S. Deep Waterways Commission, corrected to Dec., 1914).....	579.95
Standard low water (U.S. Lake Survey).....	578.50
Mean water, 1860-1900.....	581.43
" 1860-1914.....	581.20
" 1900-1914.....	580.52*

Bench marks—

United States bench mark No. 99, Chicago (11.62 above Chicago city datum).....	591.56
Bench mark No. 5 (1876), Kilbourn grist-mill, Milwaukee.....	590.55
Bench mark No. 1 (1874), Escanaba, Mich.....	593.61

The record for the period of fifty-five years, from 1860 to 1914, shows the following:

	Feet
Range in mean annual variation.....	.99
Mean annual range.....	1.24
Greatest annual range (in 1871).....	2.23
Least annual range (in 1877).....	.57
Highest monthly mean water (in June, 1886).....	583.57
Lowest monthly mean water (in December, 1895).....	578.98

Greatest range in monthly mean waters..... 4.59

*The Chicago Sanitary canal was opened January 17, 1900. Diversion of waters of Lake Michigan authorized temporarily, is 4,167 cubic feet per second, but it is understood that the averages about 8,000 c.f.s., the excess flow being in contravention of the Decision of the U. S. Secretary of War. This diversion has reduced the levels of the Great lakes as follows:

	Inches
Lakes Michigan and Huron.....	5.0
Lake Erie.....	4.9
Lake Ontario.....	3.6

**Elevation
above mean
sea level**

As regards annual variation, the lake is generally highest in the month of July and lowest in the months of December and January.

Little Mud lake, mean water.....	581.66
Hay lake, mean water.....	582.22
St. Mary river—	
Lower entrance, Sault canal, standard low water.....	581.38
" " " standard high water.....	586.41
" " " mean water (1871 to 1895).....	582.97
Upper entrance, Sault canal, standard low water.....	599.75
" " " standard high water.....	603.88
" " " mean water (1871 to 1895).....	600.65
Canadian lock, 900 ft. long and 60 ft. wide; available depth at mean water, 21.73 ft.; at low water, 20.14 ft.—	
Lower sill.....	561.07
Upper sill.....	576.24
Coping.....	604.99
United States, Davis lock, 1,350 ft. long and 80 ft. wide; available depth at mean water, 26.3 ft.; at extreme low water, 24.5 ft.—	
Lower sill.....	555.82
Upper sill.....	576.32
Coping.....	606.57
United States, Poe lock, 800 ft. long and 100 ft. wide; available depth at mean water, 21.48 ft., at low water, 19.89 ft.—	
Lower sill.....	561.12
Upper sill.....	577.49
Coping.....	604.99
United States, Weitzel lock, 515 ft. long and 80 ft. wide (gate opening 60 ft.); available depth at mean water, 15.81 ft., at low water, 14.22 feet.—	
Lower sill.....	566.66
Upper sill.....	583.66
Coping.....	604.99
Bench marks—	
Sault Ste. Marie, Ont., lower coping behind north lower guard gate.....	588.48
iron spike in south abutment of movable dam.....	612.88
No. 1, Sault Ste. Marie, Mich. (1867), a cross on stone near Indian agency.....	589.40
No. 2, Sault Ste. Marie, Mich., on coping of south wall of guard gates.....	606.07

Latitude, 46½° N. to 49° N.; longitude, 84½° W. to 92½° W. Length, steamer track, Duluth canal to point Iroquois 383 miles; length, 350 miles on right line, Duluth canal to Michipicoten harbour; breadth 160 miles on right line (about on meridian 86° 45' W.). Maximum depth, 1,012 feet.

Area of water surface.....	Sq. miles	Sq. miles
Area of watershed—		32,060
Ontario.....	30,780	
Minnesota.....	6,800	
Wisconsin.....	3,160	
Michigan.....	7,860	
Total area of basin.....		48,600
		80,660

LAKE SUPERIOR

Elevation
above mean
sea level

Area of islands.....	620
Area of detached bays.....	1,410
Rainfall, average annual.....	28 inches

Mean level above mean level of lake Huron 21.08 feet. Discharge of St. Mary river (through the rapids—as measured in 1909) at mean stage of lake Superior, 1860-1914 (602.27) is 55,000 cubic feet per second; increase in discharge per foot rise of lake is 15,300 cubic feet per second.

Average date of opening of navigation at Sault canal, April 27; average date of closing, Dec. 2.

High water, July, 1861.....	603.36
“ September, 1869.....	604.08
“ August, 1876.....	603.93
“ August, 1885.....	602.64
Low water, March, 1847.....	598.49
“ May, 1853.....	598.41
“ March, 1854.....	598.24
“ March, 1865.....	601.33
“ February, 1871.....	600.76
“ March, 1880.....	600.75
“ March, 1892.....	601.01
“ February, 1893.....	601.01
Standard high water (assumed high water of 1838).....	605.32
Standard low water (U.S. Deep Waterways Commission, corrected to Dec., 1914).....	601.13
Standard low water (U.S. Lake Survey).....	600.50
Mean water, 1860 to 1900.....	602.24
“ 1860 to 1914.....	602.27
“ 1900 to 1914.....	602.34

Bench marks—

No. 1, Duluth.....	627.17
No. 1, Marquette (1871) S.E. corner of top of foundation stone of Grace furnace.....	610.49
No. 2, Marquette (1874) cross on window-sill of Marquette water-works.....	609.99

The record for the fifty-five years, from 1860 to 1914, shows the following:—

	Feet
Range in mean annual variation.....	1.03
Mean annual range.....	1.19
Greatest annual range (in 1869).....	2.67
Least annual range (in 1891).....	0.53
Highest monthly mean water (in September, 1869).....	604.08
Lowest monthly mean water (in April, 1911).....	600.54
Greatest range in monthly mean waters.....	3.54
Highest annual mean water (in 1876).....	603.06
Lowest annual mean water (in 1879).....	601.43
Greatest range in annual mean waters.....	1.63

As regards annual variation, the lake is generally highest in the month of September and lowest in the month of March.

Miles from Sorel	RICHELIEU RIVER	Elevation above mean sea level
0.0	At confluence with river St. Lawrence—	
	Lowest normal level.....	12.72
	Standard high water.....	27.94
	Extreme high water (1865).....	30.67
14.0	St. Ours lock—	
	Lower sill.....	6.46
	Upper sill.....	11.28
	Coping of lock.....	31.90
	Crest of dam.....	18.85
	Lowest normal level, below lock.....	12.96
	Lowest normal level, above lock.....	18.24
	Extreme high water, above lock (1865).....	32.44
45.2	Chambly canal, Chambly basin—	
	Lowest normal level.....	19.40
	Extreme low water.....	18.80
	Extreme high water (1869).....	35.50
	Lower sill of lock No. 9.....	11.85
47.0	Chambly canal, lock No. 2, upper sill.....	85.90
56.5	Chambly canal, St. Johns—	
	Lower sill, guard-lock (No. 1).....	85.59
	Upper sill, guard-lock (No. 1).....	85.62
	Coping, guard-lock (No. 1), general level.....	100.85
	Standard low water (7.24 ft. on sill of lock No. 1).....	92.86
	Lowest normal water.....	92.46
	Extreme low water.....	90.90
	Mean water (1871 to 1895).....	94.94
	Standard high-water, extreme high water (April, 1869), 13.87 ft. on sill.....	99.49
80.0	Rouses Point, N. Y.—	
	Zero of U.S. Engineer's gauge at fort Montgomery.....	92.5
	U.S. Coast and Geodetic Survey B. M., on Chapman block ..	107.95

LAKE CHAMPLAIN

Length, 125 miles from Whitehall, N. Y., to St. Johns, Que.
breadth, 13 miles.

	Sq. miles	Sq. miles
Area of water surface.....		400
Area of watershed—		
Quebec.....	740	
Vermont.....	4,270	
New York.....	2,950	
		7,960

Total area of basin..... 8,360

Standard high water (May 4, 1869) highest on record.....	101.75
Standard low water.....	93.00
Extreme low water (Nov. 13, 1908).....	91.9
Mean water, 1871 to 1895.....	95.16
" " 1871 to 1882.....	95.13
" " 1871 to 1914.....	95.17

LAKE CHAMPLAIN

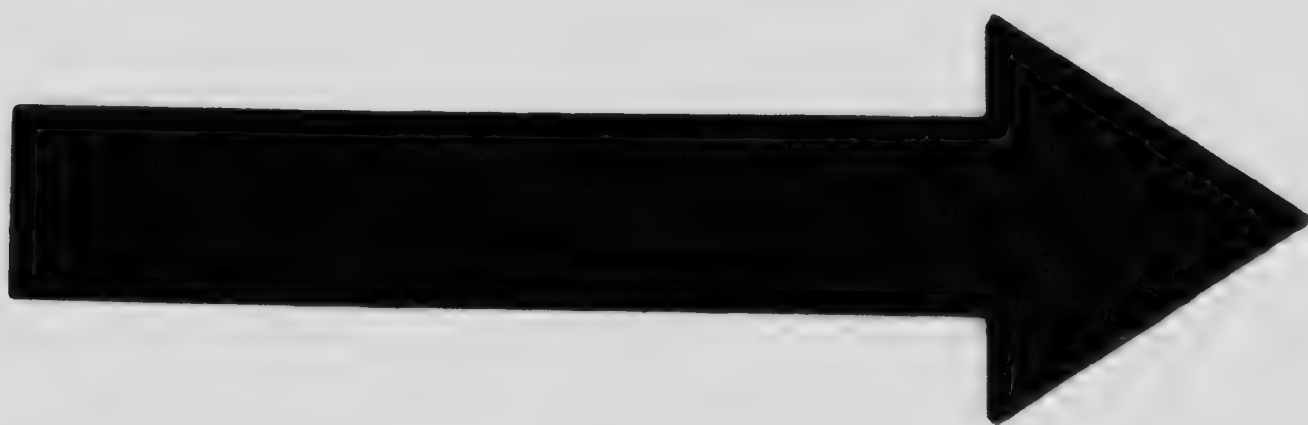
The record for the forty-four years from 1871 to 1914 shows the following:

	Feet
Range in mean annual variation.....	3.59
Mean annual range.....	4.57
Greatest annual range (in 1876).....	6.72
Least annual range (in 1872).....	2.36
Highest monthly mean water (in April, 1903).....	99.67
Lowest monthly mean water (in November, 1908).....	92.22
Greatest range in monthly mean waters.....	7.45
Highest annual mean water (in 1890).....	96.15
Lowest annual mean water (in 1883).....	91.30
Greatest range in annual mean waters.....	1.85

As regards annual variation the lake is generally highest in the month of May and lowest in the month of October.

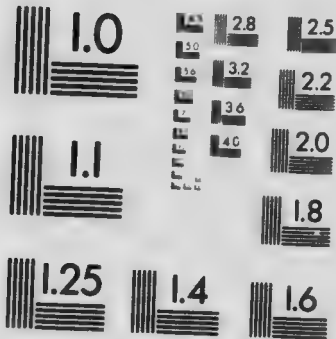
Miles from Mouth	OTTAWA AND GEORGIAN BAY CANAL (Projected)	Low water	High water
	<i>North Channel</i>		
0.0	Junction with river St. Lawrence at Bout-de-l'Île.....	16.0	29
17.5	At Ahuntsic.....	42.3	47.1
	At Cartierville.....	54.3	60
28.7	Above Dutchman rapid.....	68.3	81.1
	<i>Ottawa River</i>		
	Foot of St. Anne rapid, extreme low water (Nov. 5, 1895); highest water (May 16, 1876).....	66.05	76.0
	St. Anne, new lock, coping, 81.70; lower sill, 57.66; upper sill, 59.57; head of St. Anne rapid, extreme low water (Oct. 2, 1871); highest water on record (May 15-20, 1876).....	68.27	81.0
29.44	Lake of Two Mountains.....	70.0	81.3
49.8	Carillon canal, lower lock, coping, 86.25; lower sill, 58.20; water.....	68.28	83.2
50.6	Carillon canal, upper lock, coping, 101.20; upper sill, 73.99; water.....	78.20	97.6
56.4	Grenville canal, lock No. 5, coping, 101.84; lower sill, 71.80; extreme high water (May 8, 1899); extreme low water (Sept. 27, 1881).....	81.05	90.8
	Grenville canal, lock No. 4, coping, 116.35; lock No. 3, coping 124.31; lock No. 2, coping, 131.71.....		
62.2	Grenville canal, lock No. 1, coping, 145.59; upper sill, 117.35; extreme high water (May 16, 1876); extreme low water (Sept. 27, 1881, and Sept. 30, 1887).....	126.18	145
121.0	Ottawa harbour, highest water on record (May 16, 1876), 29.6 ft. on sill of lower entrance lock, Rideau canal; lowest water on record (Sept. 28, 1881), 4.6 ft. on sill.....	127.0	152
121.9	Above Chaudière falls, at Booth's headrace, extreme high water (1876); extreme low water (1904).....	166.1	177.0
123.0	Above Little Chaudière rapid.....	176.0	185.0

Miles from Mouth	OTTAWA AND GEORGIAN BAY CANAL (Projected)	Low water	High water
<i>Ottawa River</i>			
123.9	Above Kemie rapid.....	179.7	187.7
127-153	Deschenes lake, high water (1876); low water (1911).....	189.8	198.9
154.4	Foot of Chats falls.....	189.8	199.6
156.9	Above Chats falls and rapids.....	248.3	251.2
157-173	Chats lake.....	248.5	251.5
173.9	Foot of Chenaux rapid.....	239.8	246.8
174.3	Head of Chenaux rapid.....	240.2	247.2
179.0	Foot of Portage du Fort rapid.....	240.8	251.7
179.5	Head of Portage du Fort rapid.....	255.5	266.5
183.7	Foot of Sable rapid.....	256.9	268.4
183.8	Head of Sable rapid.....	263.1	
184.1	Foot of Mountain chute.....	264.1	
184.4	Head of Mountain chute.....	278.7	289.1
185.6	Head of D'Argis rapid.....	285.2	295.5
186.8	Foot of Calumet rapid.....	285.6	
188.2	Above Calumet rapid, at Bryson.....	339.4	354.7
198.0	Head of La Passe rapid.....	342.2	358.7
199.5	Head of Portage du Fort rapid.....	355.5	366.5
186.4	Foot of Rocher Fendu chute.....	256.0	
186.5	Head of Rocher Fendu chute.....	260.0	
187.2	Head of Flat rapid.....	261.1	
187.5	Foot of Long rapid.....	262.2	
188.2	Head of Long rapid.....	277.7	
188.6	Foot of La Barrière rapid.....	277.8	
188.9	Head of La Barrière rapid.....	278.5	
189.5	Foot of Muskrat rapid.....	279.1	
189.8	Head of Muskrat rapid.....	286.8	
191.3	Foot of Garvin chute.....	298.7	
191.5	Head of Garvin chute.....	323.0	
191.9	Foot of Desjardins rapid.....	323.6	
192.3	Head of Desjardins rapid.....	336.0	
193.3	Foot of dam.....	338.7	
193.3	Head of dam.....	343.2	
209.8	Foot of Paquette rapid.....	344.0	
210.3	Head of Paquette rapid.....	352.0	
221.7	Foot of Allumette rapid.....	352.4	
222.7	Head of Allumette rapid.....	364.4	
208.5	Foot of Allumette island.....	343.2	
216.9	Foot of Allumette island.....	344.5	
217.7	Foot of Culbute rapid.....	344.8	
219.0	Head of Culbute rapid.....	355.0	
220.0	Culbute lock (disused) coping, 374.50; lower sill 357.20.....		
224.0	Allumette or Pembroke lake, at Pembroke.....	364.4	372.2
265.5	Foot of Des Joachims rapid.....	365.5	374.7
267.1	Head of Des Joachims rapid.....	390.6	405.7
276.5	Stonecliffe.....	391.2	406.7
279.8	Foot of McSorley rapid.....	393.0	409.6
280.2	Head of McSorley rapid.....	396.4	410.8
284.5	Foot of Rocher Capitaine rapid.....	398.7	412.4
285.5	Head of Rocher Capitaine rapid.....	411.2	451.6
296.4	Foot of Deux Rivières rapid.....	443.1	454.3
296.9	Head of Deux Rivières rapid.....	457.2	465.7
297.9	Foot of Trou rapid.....	457.7	466.0
298.3	Head of Trou rapid.....	464.9	474.4
298.4	Foot of Léveillé rapid.....	467.5	477.4



MICROCOPY RESOLUTION TEST CHART

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Miles from Mouth	OTTAWA AND GEORGIAN BAY CANAL (Projected)	High water	Low water
<i>Ottawa River</i>			
299.5	Head of Léveille rapid.....	474.3	484.1
310.1	Foot of Rocky Farm rapid.....	476.0	496.7
310.1	Head of Rocky Farm rapid.....	479.0	493.4
312.4	Foot of Burritt rapid.....	482.0	494.4
313.1	Head of Burritt rapid.....	483.0	497.5
317.7	Foot of Johnson rapid.....	483.0	
318.2	Head of Johnson rapid.....	487.4	506.1
318.9	Mouth of Mattawa river.....	492.8	507.5
<i>Mattawa River</i>			
319.8-320.6	Boom lake.....	496.8	
320.6	Foot of Plein Chant rapid and chute.....	496.0	
321.3-326.8	Lac Plein Chant.....	517.7	
326.9	Foot of des Epines rapid.....	517.7	
327.0	Head of des Epines rapid.....	519.7	
327.3	Foot of Rose rapid.....	520.5	
327.8	Head of Rose rapid.....	526.1	
328.7	Foot of des Rochers rapid.....	527.5	
328.8	Head of des Rochers rapid.....	532.1	
	Bouleau lake.....	532.1	
329.3	Foot of des Aiguilles rapid.....	532.2	
329.3	Head of des Aiguilles rapid.....	532.7	
331.9	Foot of Paresseux chute.....	532.7	
332.1	Head of Paresseux chute.....	570.6	
332.5	Foot of Little Paresseux rapid.....	570.6	
332.7	Head of Little Paresseux rapid.....	577.7	
333.7	Foot of lake Pimisi.....	589.0	
334.8	Foot of Talon chute.....	589.0	
335.0	Head of Talon chute.....	632.3	
335-340	Lake Talon.....	633.2	638.3
341.8	Fallon lake.....	637.2	
342.3	Whitefish lake.....	639.7	
342.9	Moose pond.....	658.4	
343.6	Wolf pond.....	659.2	
344.0-345.7	Turtle lake.....	662.8	664.6
348.5-355.6	Trout lake.....	662.9	665.7
356.3	McLean lake.....	664.3	
<i>French River</i>			
356.5	Upper Twin lake.....	662.2	
356.8	Lower Twin lake.....	661.8	
357.5	Jennings lake.....	665.5	
359.1-377.5	Lake Nipissing (area of water surface, 330 sq. miles; of watershed, 3,600; total area of basin, 3,930 sq. miles).		
389.4	Head of Chaudière portage.....	638.2	645.5
389.7	Foot of Chaudière rapid.....	613.3	617.0
398.7	Head of Little Pine rapid.....	613.3	616.9
398.8	Foot of Little Pine rapid.....	609.5	
399.4	Head of Grande Faucille or Big Pine rapid.....	609.6	613.0
399.6	Foot of Grande Faucille or Big Pine rapid.....	604.5	
400.3	Head of Buisson rapid.....	604.0	
400.4	Foot of Buisson rapid.....	600.7	
400.8	Head of Petite Faucille rapid.....	600.6	

ONTARIO—RIVERS AND CANALS

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Low water	Miles from Mouth	OTTAWA AND GEORGIAN BAY CANAL (Projected)	Low water	High water
		<i>French River</i>		
484.1	400.9	Foot of Petite Fauille rapid.....	596.2	602.6
496.7	403.0	Head of Parisien rapid.....	595.3	
493.4	403.2	Foot of Parisien rapid.....	594.3	598.1
494.4	417.1	Head of Grand Recollet rapid, Horseshoe fall.....	594.3	
497.5	417.1	Foot of Grand Recollet rapid.....	586.3	
	439.2	Head of Petites Dalles rapid.....	583.8	
506.1	439.6	Foot of Petites Dalles rapid.....	580.0	
507.5	440.3	Georgian bay (mean water, 1875-1914, 581.08).....	578.5	584.69

OTTAWA RIVER

Area of basin—	Sq. miles
Headwaters to foot of lake Timiskaming.....	20,000
Mouth of Mattawa river to Chaudière fall.....	14,600
Chaudière fall to river St. Lawrence.....	21,100
Total area of basin.....	55,700

	At junction with Mattawa river.....	492.8	507.5
	Foot of Cave rapid.....	495.5	509.5
	Head of Cave rapid.....	505	519
	Foot of Les Erables rapid.....	506.3	520.3
	Head of Les Erables rapid.....	518.6	532.6
	Foot of Mountain rapid.....	519.1	533.1
	Head Mountain rapid.....	522.2	540.1
	Foot of Seven-league lake.....	522.2	540.1
	Head of Seven-league lake.....	522.7	542.6
	Head of Long Sault rapid.....	577.6	591.6
	Lake Timiskaming, at Timiskaming dam.....	575.2	590.3
	“ “ at Haileybury.....	575.5	591.8
	Lac des Quinze, high water (1910), low water (1911).....	852	856.5
	Lake Expanse, water (June 21, 1910).....	856*	
	Head of Sturgeon rapids.....	874*	
	Mouth of Kinojevis river.....	874*	
	Kinojevis river—		
	Head of Windfall rapid.....	884*	
	Head of Crooked rapid.....	905*	
	Head of Brûlé or Cascade rapid.....	931*	
	Head of Height-of-land Mine rapid.....	942*	
	Height-of-land between Kinojevis river and Seals-home lake.....	965	

638.3

664.6

665.7

Miles from Ottawa	RIDEAU CANAL	Elevation above mean level
0.0	Foot of locks at Ottawa, lowest water on record (Sept. 28, 1881), 127.0; standard low water.....	127.4
0.1	Above Ottawa locks.....	210
5.0	“ Hartwell locks.....	230
6.5	“ Hogsback lock.....	244
10.0	“ Black Rapids lock.....	253
15.0	“ Long Island locks.....	278
42.0	“ Burritt lock.....	289
43.5	“ Nicholson lock.....	303

*These altitudes were determined during June and July, 1910, and do not represent either “high” or “low” water.

Miles from
Ottawa

RIDEAU CANAL

Elevation
above mean
sea level

45.0	Above Clowes lock.....	313
46.5	" Merrickville locks.....	338
54.5	" Maitland lock.....	340
58.5	" Edmonds lock.....	349
60.0	" Old Sly lock.....	365
61.0	" Smiths Falls locks.....	398
63.0	" Poonamalie lock (Rideau lake).....	404
83.0	" Narrows lock (Upper Rideau lake, summit level).....	408
88.5	Below Isthmus lock (Mud, Clear, Indian and Mosquito lakes).....	403
93.0	" Chaffey lock (Opinicon lake).....	396
95.5	" Davis lock (Sand lake).....	383
98.5	" Jones Falls locks (Whitefish and Cranberry lakes).....	323
109.5	" Upper Brewers lock.....	306
111.5	" Lower Brewers lock.....	291
127.5	Lake Ontario at Kingston, standard low water.....	243.0

GANANOQUE RIVER

Morton, crest of dam, 326; water above dam, 324; at bridge.....	299
Delta or Lower Beverly lake.....	296
Lyndhurst, upper mill pond.....	297
Lyndhurst, lower mill pond.....	272
Killenbeck lake.....	274
Long lake.....	272
Singleton lake.....	272
Charleston lake.....	273
Gananoque river at Marble rock.....	263
St. Lawrence river, at mouth of Gananoque river, low water.....	243

Miles from
Trenton

TRENT CANAL

0.0	Lake Ontario at Trenton, standard low water.....	243.0
0.3	Canadian Northern Ry. bridge, rail.....	259.70
0.8	Canadian Pacific Ry. bridge, rail.....	300.74
1.8	Grand Trunk Ry. bridge, rail.....	282.14
1.8	Trenton Junction lock, No. 1, navigation level above.....	263.4
2.4	Lock No. 2, navigation level above.....	283.5
3.9	Glen Miller lock, No. 3, navigation level above.....	310.4
5.2	Lock No. 4, navigation level above.....	328.4
6.4	Lock No. 5, navigation level above.....	346.5
7.3	Frankford lock, No. 6, navigation level above.....	362.6
13.9	Glenross lock, No. 7, navigation level above.....	371.6
14.0	Central Ontario Ry. bridge, rail.....	383.25
25.2	Lock No. 8, navigation level above.....	392.0
26.4	Meyersburg lock, No. 9, navigation level above.....	408.0
27.9	Lock No. 10, navigation level above.....	432.0
29.6	Ranney falls, lock No. 11, navigation level above.....	456.0
	Ranney falls, lock No. 12, navigation level above.....	480.0
30.6	Grand Trunk Ry. bridge, rail.....	490.0
32.1	Campbellford lock, No. 13, navigation level above.....	503.0
33.6	Middle Falls lock, No. 14, navigation level above.....	528.0
36.1	Lock No. 15, navigation level above.....	550.0
36.5	Healey falls, lock No. 16, navigation level above.....	577.0
	Healey falls, lock No. 17, navigation level above.....	604.0
51.0	Hastings lock, No. 18, navigation level above.....	613.9
51.9	Grand Trunk Ry. bridge, rail.....	631.21
57-68	Rice lake, water.....	613.0

Elevation
above mean
sea level

 Miles from
Trenton

TRENT CANAL

 Elevation
above mean
sea level

313	611.7	Otonabee river, water.....	614.0
338	88.3	Peterborough lock, No. 19, navigation level above.....	620.4
340	88.4	Grand Trunk Ry. bridge, rail.....	634.5
349	89.0	Lock No. 20, navigation level above.....	632.1
365	89.1	Canadian Pacific Ry. bridge, rail.....	641.0
398	89.3	Hydraulic lock, No. 21, navigation level above.....	620.4
404	92.5	Grand Trunk Ry., Lakefield branch, bridge, rail.....	710.6
408	93.0	Lock No. 22, navigation level above.....	711.1
403	94.4	Lock No. 23, navigation level above.....	723.1
496	96.0	Lock No. 24, navigation level above.....	735.1
483	96.8	Lock No. 25, navigation level above.....	745.0
423	98.3	Lakefield lock, No. 26, navigation level above (Katchiwanno lake).....	760.8
406	103.3	Youngs Point lock, No. 27, navigation level above.....	768.4
491	103.3-112.3	Clear and Stony lakes, extreme high water, 774.7; extreme low water.....	767.7
43.0	112.3	Burleigh Falls, lock No. 28, navigation level above.....	780.8
	114.3	Burleigh Falls, lock No. 29, navigation level above (Lovesick lake).....	793.2
		Lovesick lock, No. 30, navigation level above (Deer Bay and Little Buckhorn lakes).....	797.2
99	119.3	Buckhorn lock No. 31, navigation level above (Pigeon and Buckhorn lakes).....	806.5
96	135.8	Bobcaygeon lock, No. 32, navigation level above (Sturgeon lake).....	813.6
97	150.3	Fenelon Falls, lock No. 33, navigation level above.....	824.9
72		Fenelon Falls, lock No. 34, navigation level above (Cameron lake).....	836.3
74	153.8	Rosedale lock, No. 35, navigation level above (Balsam lake, summit level).....	840.3
72	164.3	Grand Trunk Ry. bridge, rail.....	868.0
73	165.6	Kirkfield hydraulic lock, navigation level below.....	791.8
53	173.3	Lock No. 37, navigation level below.....	770.3
43	174.3	Lock No. 38, navigation level below.....	756.3
	175.8	Lock No. 39, navigation level below.....	742.2
43.0	176.3	Lock No. 40, navigation level below.....	728.2
49.70	177.0	Lock No. 41, navigation level below.....	717.7
40.74	177.9	Grand Trunk Ry. bridge, rail.....	747.0
42.14	178.3-202.3	Lakes Simcoe and Couchiching (area of water surface, 300 sq. miles; of watershed, 1,750; total area of basin, 2,050 sq. miles), water.....	717.7
43.4	193.3	Grand Trunk Ry. bridge, rail.....	726.7
43.5	193.4	Canadian Pacific Ry. bridge, rail.....	729.4
40.4	203.5	Severn lock, No. 42, navigation level below (Sparrow lake).....	697.7
8.4	204.6	Canadian Northern Ry. bridge, rail.....	736.2
6.5	217.8	Ragged Rapids lock, No. 43, navigation level below.....	650.7
2.6	217.9	Canadian Northern Ry. bridge, rail.....	735.7
1.6	223.5	Canadian Pacific Ry. bridge, rail.....	689.1
3.25	225.5	Big Chute lock, No. 44, navigation level below.....	621.6
2.0	226.5	Lock No. 45, navigation level below.....	592.6
8.0	226.5	Gloucester lock, No. 46, navigation level below.....	592.6
2.0	233.6	Honeymoon lock, No. 46, navigation level below.....	578.5
5.0		Lake Huron, standard low water.....	578.5
0.0		Lake Scugog Branch—	
3.0	161.2	Below Lindsay lock.....	814
0.0	161.2	Above Lindsay lock.....	822
7.0	190.0	Lake Scugog.....	822
4.0			
5.9			
1.21			
0.0			

Miles from
Dunnville

GRAND RIVER

Elevation
above mean
sea level

0.00	Below Dunnville dam (May 6, 1913), 573.94; above dam.....	577.98
0.00	B. M. on abutment at Welland Canal gauge, Dunnville.....	586.47
19.75	Water (May 12, 1913).....	583.83
22.00	Water (May 13, 1913).....	595.08
26.40	Below Caledonia dam (May 14, 1913), 610.01; above dam.....	618.05
51.89	Water, May 23, 1913.....	623.83
55.00	Water, May 26, 1913.....	636.80
56.75	Brantford dam, crest, 653.22; water below, 645.09; water above	653.57
56.87	Brantford, floor of Colborne Street bridge.....	676.43
60.00	Crest of Watson Knitting Co's dam, 671.93; water in tail-race, 655.88; water above dam (May 28, 1913).....	672.28
66.10	Water (May 29, 1913).....	698.58
	Confluence with Nith river.....	721.97
68.93	Crest of dam, 733.80; water below dam, 723.47; above dam....	734.07
72.08	0.78 mile above Grand Trunk Ry. bridge (June 2, 1913).....	758.76
75.20	Glenmorris bridge (June 3, 1913).....	794.02
78.04	Water (June 4, 1913).....	817.40
80.94	1.06 miles above road bridge (June 5, 1913).....	845.07
82.89	Galt, B.M., on concrete, under old cannon in park.....	877.11
83.20	Galt, crest of Turnbull's dam, 867.77; water below dam (June 9, 1913), 858.94; above.....	867.77
86.84	At confluence of Speed and Grand rivers (June 11, 1913).....	880.63
87.77	Blair, E.M. on floor of bridge.....	909.12
89.90	Half-mile above dam (June 12, 1913).....	900.03
93.01	Water (June 13, 1913).....	915.87
96.06	1.57 miles above P. & B. Ry. bridge at Freeport.....	933.87
96.82	Below Chicopee woollen mills dam (June 14, 1913), 941.88; above	942.81
100.10	Water (June 16, 1913).....	956.41
102.90	2.00 miles above Grand Trunk Ry. bridge, Breslau.....	967.48
	Bloomingtondale, ice.....	991
110.00	Confluence of Conestoga and Grand rivers, water (June 18, 1913) ..	1,003.74
116.02	1.36 miles below West Montrose bridge, water (June 24, 1913) ..	1,038.34
120.00	1.64 miles above Can. Pac. Ry. bridge, water (June 24, 1913) ..	1,065.95
123.00	Water (June 25, 1913).....	1,088.77
128.54	Crest of Furniture Co's dam, 1,216.52; water below, 1,175.11; above.....	1,213.82
128.93	Crest of T. E. Bissell's dam, Elora, 1,227.41; water below dam (June 26, 1913), 1,213.97; above.....	1,228.35
129.80	Oil Co's dam, crest, 1,244.12; water below dam, 1,230.58; above	1,240.23
130.13	Crest of Fergus dam, 1,280.68; water below, 1,262.39; above....	1,275.30
132.66	Crest of flour-mill dam, 1,298.33; water below, 1,282.13; above..	1,297.03
	At Canadian Pacific Ry. bridge below Belwood, water (July 1)...	1,349.46
138.57	B.M., top of left abutment (downstream face) of Belwood bridge Fairchild creek—	1,380.15
	Toronto, Hamilton and Buffalo Ry. bridge, water (July 3)...	634.79
	T. H. and B. bridge, downstream side, right abutment, B.M..	659.01

Miles from
Grand River

RIVER NITH

0.00	Confluence with Grand river, water (July 3, 1913).....	721.97
0.37	Crest of dam, 739.00; water below, 727.69; above.....	739.35
0.75	Penman dam, crest, 752.46; water in tail-race, 739.58; above dam	753.09
7.44	B.M., on wing wall, left abutment, road bridge, 819.48; water...	802.68

ONTARIO—RIVERS

431

Elevation
above mean
sea level

Miles from
Grand River

SPEED RIVER

Elevation
above mean
sea level

577-98	0-00	Confluence with Grand river, 86-84 miles from Dunnville	880-19
586-47	1-30	Below dam, 882-30; above dam	892-61
583-83	1-84	Crest of Patterson's mill-dam, 897-93; water below (July 9, 1913)	900-19
595-08		892-83; water above	935-82
618-05	4-33	Crest of Forbes dam, Hespeler, 935-69; water below, 929-19; above	949-37
623-83	5-12	Canadian Woollen Mills dam, crest, 949-38; water in tail-race	955-93
636-80		936-75; above	1,011-02
653-57	6-78	Cole and Sons' dam, crest, 955-89; water below, 951-68; above	1,011-24
676-43	15-03	Crest of dam, 1,010-87; water below dam, 1,007-18; above	1,020-92
	15-47	0-11 mile above mouth of Eramosa river, tail-race of Victoria mills	1,032-87
672-28	15-63	Guelph, crest of grist-mill dam, 1,021-63; water below (July	1,054-02
698-58		16, 1913), 1,016-17; above	1,069-08
721-97	16-03	Crest of dam, 1,034-87; water below dam, 1,022-45; above	1,097-92
734-07	16-80	Goldie's dam, crest, 1,054-45; water in tail-race, 1,034-04; above	1,127-67
758-76	17-93	Simpson's dam, crest, 1,070-61; water below, 1,064-77; above	1,134-49
794-02	20-90	0-91 mile below Leslie's bridge, water (July 17, 1913)	
817-40	21-81	Water (July 18, 1913)	
845-07	23-65	B.M., upstream side, sill of right abutment, Carter's bridge	
877-11			

HYDRO-ELECTRIC POWER COMMISSION'S GAUGES

867-77	Gauge No. 1	Boston creek, quarter-mile from York, at road bridge, zero	591-00
880-63	Gauge No. 2	Grand river, east approach of bridge, York, zero	593-00
909-12	Gauge No. 3	Fairchild creek, on Howell bridge $1\frac{1}{4}$ miles from Onondaga, zero	621-00
900-03	Gauge No. 4	Grand river, T. H. & B. Ry. bridge, east approach, Brantford, zero	643-00
915-87	Gauge No. 5	Western Counties canal, Market Street bridge, Brantford, zero	650-00
933-87	Gauge No. 6	Whiteman creek, first bridge above junc. with Grand river, zero	690-00
942-81	Gauge No. 7	Grand river, on Dundas St. bridge, Paris, zero	717-00
956-41	Gauge No. 8	Nith river, con. II, lot 2, Blenheim tp., zero	799-00
967-48	Gauge No. 9	Grand river, on Glenmorris bridge, Glenmorris, zero	801-00
991	Gauge No. 10	Grand river, Concession St. bridge, Galt, zero	851-00
003-74	Gauge No. 11	Galt creek, on Kerr St. bridge, Galt, zero	893-90
038-34	Gauge No. 12	Speed river, on jail wall, adjoining power house, Hespeler, zero	935-00
065-95	Gauge No. 13	Speed and Eramosa rivers, on Gordon St. bridge, Guelph, zero	1,005-00
088-77	Gauge No. 14	Grand river, on bridge in Conestoga village, zero	1,017-00
213-82	Gauge No. 15	Conestoga river, on bridge in St. Jacobs village, zero	1,057-00
228-35	Gauge No. 16	Speed river, Eramosa Road bridge, $3\frac{1}{4}$ miles from Guelph, zero	1,126-00
240-23	Gauge No. 17	Irvine river, bridge, cons. XI and XII, lot 14, Nichol tp., zero	1,297-00
275-30	Gauge No. 18	Grand river, on bridge in Belwood village, zero	1,366-00

MADAWASKA RIVER

297-03	Ottawa river, Chats lake, high water, 251-5; low water	238-5
349-46	Calabogie lake, high water, 505; summer water	500
380-15	Head of High falls	611
634-79	At 'Wright and Batsons'	891
659-01	At confluence with York river	927
	Lake Kaministiquia	927
	Bark lake	1,010
721-97	Grand Trunk Ry. bridge, near Madawaska station	1,014
739-35	Grand Trunk Ry., second crossing, 272-8 miles	1,177
753-09	Rapid lake	1,239
802-68	Long lake	1,280
	Rock lake	1,281
	Whitefish lake	1,281
	Lake of Two Rivers	1,289
	4-2 miles east of Algonquin Park station	1,294

MADAWASKA RIVER

Elevation
above mean
sea level

1.7 miles east of Algonquin Park station	1,335
1.0 mile east of Algonquin Park station	1,406
Cache lake	1,406
2 miles west of Algonquin Park station	1,461
Height-of-land between Madawaska and Muskoka rivers	1,506

Miles from
Madawaska R.

YORK RIVER

0.0	At confluence with Madawaska river	927
7.7	Head of Conroy rapid, rise 3.0 ft.	932
25.8	Head of fall, rise 18.5 ft.	969
26.8	Head of rapid, rise 8.7 ft.	979
27.6	Head of falls, rise 34.3 ft.	1,015
33.4	Head of falls and rapids, rise 23 ft.	1,041
37.1	Head of Bancroft rapid, rise 20 ft.	1,063
48.0	Head of rapids and fall, rise 25 feet	1,113
48.9	Head of Big fall, rise 37 feet	1,151
50.0-57.0	Baptiste lake	1,157
68.5	Papineau lake	1,166

Miles from
Ottawa River

BONNECHERE RIVER

0.0	Ottawa river, Chats lake, high water, 251.5; low water	238.5
1.2	First chute, crest of dam, 279; water above dam (Oct. 29, 1914)	268
9.9	Second chute, foot of rapids, 283; tail-race, Renfrew Power Co.'s plant, 286; water above dam	322
10.1	Renfrew municipal power plant, water in tail-race, 324; above dam	362
10.8	At Canadian Pacific Ry. bridge, Renfrew, low water, 362; high water, 371; ordinary water	365
23.4	Third chute, water below lower Douglas dam, 367; above	376
24.8	Third chute, water below upper Douglas dam, 376; above	396
28.3	At Canadian Pacific Ry. bridge, Douglas	407
32.6	Fourth chute, foot of rapids, 423; water in tail-race, 447; above dam	459
33.4	Eganville rapids, McRae's plant, water below dam, 475; above	486
33.9	Eganville rapids, grist-mill dam, water in tail-race, 495.5; above	511
37.3-38.8	Eganville rapids, Ferguson dam, water below dam, 516; above	528
42.3-49.6	Mud lake	538
56.2-60.2	Golden lake, water (April, 1914), 553.5; flood, 555; water (Sept. 19, 1913)	553
69.7	Round lake, water below dam, 556; above	560
70.5	Source of Little Madawaska river	976
	Height-of-land between Bonnechere and Madawaska	984

Miles from
Ottawa River

PETAWAWA RIVER

0.0	Ottawa river, Allumette lake, high water, 372.2; low water	364.4
0.8	Head of fall, rise 17 ft.	386
1.3	Head of fall, rise 15.3 ft.	402
2.3	Head of fall and rapid, rise 15.7 ft.	418
4.1	Head of fall and rapid, rise 15.3 ft.	430
	Canadian Pacific Ry. bridge, water	436
6.3	Head of fall and rapid, rise 14.5 ft.	452
8.0	Junction with Barron river	454
9.6	Head of rapid, rise 20 ft.	475
14.8	Head of rapid, rise 10 ft.	493
29.5	Head of falls and rapids, rise 12 ft.	515

ONTARIO—RIVERS

433

Elevation
above mean
sea level

Miles from
Ottawa River

PETAWAWA RIVER

Elevation
above mean
sea level

1,335	31.7	Head of falls and rapids, rise 27.5 ft.	513
1,406	37.1	Head of falls and rapids, rise 30 ft.	575
1,406	38.2	Head of falls and rapids, rise 48.5 ft.	627
1,461	40.4	Head of rapid, rise 7 ft.	634
1,506	44.2	Head of rapid, rise 19 ft.	654
	46.5-50.2	Lac Travers.	655
	50.7	Head of falls and rapids, rise 135 ft.	790
	54.1	Head of cascade, dam and slide, rise 22 ft.	814
927	56.5	Canadian Northern Ry. bridge.	814
932	58.1-59.5	Lake Francis.	880
969	63.9	Canadian Northern Ry. bridge.	898
979	62.7-65.0	Trout lake, high water, 916, water (Mar. 2, 1912).	913
1,015		Hills to south-west and north of Trout lake.	1,600-1,700
1,041	58.0	Head of fall and rapid, rise 30 ft.	943
1,063	69.1	Head of rapid, rise 36 ft.	979
1,113	70.1	Head of dam and rapids, rise 17 ft.	996
1,151	70.5	Head of rapids, rise 18 ft.	1,014
1,157	70.5-74.7	Cedar lake, water (Jan. 20, 1912), 1,007; high water.	1,014
1,166	74.9	Head of fall and rapids, rise 78.2 ft.	1,094
	75.8	Head of fall, rise 40.9 ft.	1,135
	77.0	Head of rapid, rise 24 ft.	1,164
	77.5	Head of fall and rapid, rise 47 ft.	1,220
	78.7	Head of rapids, rise 46.9 ft.	1,267
238.5	80.7-84.0	Catfish lake.	1,270
268	90.2	Burnt lake.	1,304
322	102.2	White Trout lake.	1,322
362	109.7	Otter-slide lake.	1,400

Miles from
Lake Huron

MUSKOKA RIVER

365	0.0	Lake Huron, mean level (1860-1914).	581.20
376	2.3	Head of 1st fall, rise 10.4 ft.	592
396	7.8	Head of 3rd fall, rise 13.1 ft.	613
407	9.0	Head of 4th fall, rise 30.6 ft.	644
459	16.5	Head of 5th fall, rise 34.8 ft.	714
486	20.6	Foot of 1st summer level.	719.5
511	20.7	Bar.	730.96
528	20.7-34.2	Mu. water, 738; high water, 742.5; navigation level.	739.5
538		Lak. water, 741.0; high water, 743.5; navigation level.	742.0
		Lake water, 741.0; high water, 743.5; navigation level.	742.0
		North branch—	
	39.0	Confluence with South branch.	742
	39.5	Head of Bracebridge fall, rise 51.7 ft.	794
	39.7	Head of fall and rapid, rise 7.6 ft.	802
	41.0	Head of Wolfram falls, rise 37.7 ft.	840
	43.9	Head of High fall, rise 59.2.	900
364.4	54.7-58.5	Mary lake.	922
386		Zero of Port Sydney gauge.	921.25
402	63.5-66.2	Fairy lake, navigation level.	931.2
418	67.0-70.7	Peninsula lake, navigation level.	931.2
436		Hill, one mile east of Peninsula lake.	1,325
436		Vernon lake, navigation level.	931.2
452		Huntsville, upper gauge at lock.	923.72
454		East river at Grand Trunk Ry. bridge, near Melissa P.O.	934
475		Little East river at Grand Trunk Ry. bridge near Novar.	1,062
493		Rainy lake.	1,438
515		Height of land between East and Maganetawan rivers.	1,536

Miles from
Lake Huron

MUSKOKA RIVER

Elevation
above mean
sea level

	South Branch—	
39.0	Confluence with North branch at Bracebridge.....	742
	2½ miles below Baysville station.....	1,031
63.7-77.0	Lake of Bays.....	1,047
79.2	Head of falls, rise 22 ft.....	1,074
80.8-81.7	Head of rapid and fall, rise 49 ft.....	1,135
81.8	Head of rapid and fall, rise 20.9 ft.....	1,153
82.8	Head of rapid and fall, rise 50 ft.....	1,205
84.0-85.2	Ox-tongue lake.....	1,208
86.9	Head of fall, rise 77.5 ft.....	1,288
105.7-108.2	Canoe lake.....	1,379
102.2-125.5	Burnt Island lake.....	1,400
	Height-of-land between South branch and Petawawa river..	1,405
	Potter lake.....	1,426

Miles from
Lake Huron

MAGANETAWAN RIVER

6.0	Lake Huron, mean water (1800-1814).....	581.2
10.7	Small lake.....	613
12.7	Confluence with South branch.....	614
14.7	Head of rapids and falls, rise 44.81 feet.....	659
16.2	Head of three falls, rise 2.40, 7.72 and 10.60 feet, respectively..	681
17.0-17.7	Island lake.....	681
21.7	Upper forks.....	693
25.2	Foot of rapids.....	694
26.7	Head of three rapids, rise 3.64, 20.56 and 2.00 feet, respectively	720
28.2-32.4	Wawaskesh lake.....	720
32.2	Head of fall, rise 10.06 feet.....	730
33.8	Head of Lower Burnt chute, rise 34.20 feet.....	765
35.0	Head of Upper Burnt chute and rapid, rise 21.08 feet.....	788
37.7	At Maple island.....	796
42.7	Foot of a succession of falls and rapids.....	834
44.2	Head of a succession of falls and rapids, rise 49.95 feet.....	884
46.0-51.7	Ahmik lake.....	906
54.5	Confluence with Distress river.....	918
60.0-62.5	Sesebe lake.....	920
72.1	Head of Burks falls.....	952
72.7	Junction with North branch at Burks Falls.....	953
73.1	Grand Trunk Ry. bridge, 0.5 mile S. of Burks Falls station.....	953
74.4	Grand Trunk Ry. bridge, 1.8 mile S. of Burks Falls station.....	963
78.5	Doe lake.....	965
80.2	At Grand Trunk Ry. bridge, 0.9 mile S. of Katrine station.....	966
83.2	Foot of rapids and falls.....	991
83.7	Head of rapids and falls.....	1,076
88.2	Long lake.....	1,095
94.7-96.2	Wazuzke or Sand lake.....	1,008

Miles from
L. Nipissing

SOUTH RIVER

0.0	Lake Nipissing, high water, 645.5; low water.....	638.2
5.7	Head of rapid, rise 27.78 feet.....	680
6.1	Head of fall, rise 43.62 feet.....	724
6.7	Head of fall, rise 35.03 feet.....	759
8.1	Head of rapid, rise 7.58 feet.....	771
11.0	At 'Great elbow' near Powassan.....	777
15.0	Head of fall, rise 27.59 feet.....	808
17.1	Head of falls and rapid, rise 22.61 feet.....	832

ONTARIO—RIVERS

435

Elevation
above mean
sea level

SOUTH RIVER

Elevation
above mean
sea level

742	17.8	Head of fall, rise 18.30 feet.....	851
1,031	20.0	Head of falls and rapid, rise 6.76 feet.....	858
1,047		Canadian Pacific Ry. survey line (1876), high water, 880; low water.....	874
1,074	30.7	Head of succession of rapids and falls.....	1,032
1,135	35.0	Head of succession of falls.....	1,071
1,153		Grand Trunk Ry. bridge, near South River station.....	1,146
1,205		Crossing Canadian Pacific Ry. survey line.....	1,151
1,208		At Bobcaygeon road bridge.....	1,203
1,288			
1,379			
1,400			
1,405			
1,426			

STURGEON RIVER

		Lake Nipissing, high water, 645.5; low water.....	638.2
		Below Sturgeon falls.....	645
		Above Sturgeon falls.....	676
		Canadian Northern Ry. bridge, high water, 692; water.....	683
		Above Sandy falls.....	696
		Below rapid.....	697
		Above rapid.....	703
		Below Smoky falls.....	704
		Above Smoky falls, high water, 732; low water.....	722
		Mouth of Tomiko river, high water, 736; low water.....	723
		Mouth of Pike river, high water, 741; low water.....	725
		Mouth of Snake creek, high water, 748; low water.....	730
		Mouth of Timagami river, high water, 751; low water.....	734
		Canadian Northern Ry. bridge, high water, 764; water.....	757
		Mouth of Maskinonge river, high water, 795; low water.....	785
		Mouth of Wawashkashi creek, low water, 811; mean water.....	815
		Maskinonge River—	
		First lake.....	813
		Second lake.....	814
		Murray lake.....	815
		Fourth lake.....	826
		Maskinonge-wagami lake.....	836
		Kookagami lake.....	882
		McLaren river (at foot of portage from lake).....	872
		Mattagamashi lake.....	871
		Timagami River—	
		Canadian Northern Ry. bridge, near mouth, high water, 751; ordinary water.....	746
		Island lake.....	889
		Red Cedar lake.....	900
		Head of swift current.....	903
		Head of Sand-bar rapid.....	919
		Head of Burnt Portage rapid.....	930
		Head of rapid.....	936
		Head of Log-jam rapid.....	951
		Head of Twin rapid.....	957
		Head of Flat rapid.....	958
		Cross lake.....	959
		Timagami lake.....	965
		Marten Creek—	
		Above rapid.....	903
		Above rapid.....	911
		Above rapid.....	914
		Above rapid.....	919
		Above rapid.....	920

STURGEON RIVER

Elevation
above mean
sea level

Marten Creek (cont.)—

Above falls.....	935
Marten lake.....	936
Wickateed lake.....	941
Lower Redwater lake.....	1,008
Upper Redwater lake.....	1,008
Mackenzie lake.....	956
Simpson lake.....	966
Expectation lake.....	968
Desperation lake.....	983
Salvation lake.....	1,008
Breadalbane lake.....	986
McDiarmid lake.....	992
Fanny lake.....	994
Bush lake.....	983

Tomiko River—

Mouth of Tomiko river, high water, 736; low water.....	723
Tomiko lake.....	795
Chebogomog lake.....	798
Cameron lake.....	803
Tilden lake.....	928
Kaotisinimigo lake.....	948
Poplar lake.....	949
South Spruce lake.....	978
North Spruce lake.....	978

OTTERTAIL RIVER

Lake Timiskaming, high water, 590.3; low water.....	575.2
White Beaver lake (Wabaunk lake).....	841
Ruth lake.....	991
Beaver pond (head of river).....	991

MATABITCHUAN RIVER

Lake Timiskaming, high water, 590.3; low water.....	575.2
Summit of Matabitchuan portage.....	927
Beaver mountain (King of Beavers).....	1,247
First Bass lake.....	858
Second Bass lake.....	858
Third Bass lake.....	859
Fourth Bass lake.....	864
Rabbit lake.....	938
White Bear lake.....	942
Crooked or Snake Island lake.....	953
Net lake.....	968
Thieving-bear lake.....	975
Mountain lake (head of Matabitchuan river).....	1,029
Ferguson lake.....	971
Duncan lake.....	971
Petrout lake.....	996
Lily lake.....	1,001
Peeshabo lake.....	1,005
Bogie lake.....	1,007
Granite lake.....	1,006
James lake.....	1,023
Rib lake.....	1,028

Elevation
above mean
sea level

MATABITCHUAN RIVER

Elevation
above mean
sea level

935
936
941
1,008
1,008
956
966
968
983
1,008
986
992
994
983

723
795
798
803
928
948
949
978
978

Cliff lake.....	1,048
Summit lake.....	1,168
Friday lake.....	1,103
Wilson lake.....	1,173
Cooper lake.....	914
Glasford lake.....	927
Moxam lake.....	933
Burwash lake.....	934
Ross lake.....	936

MONTREAL RIVER

575.2
841
991
991

Lake Timiskaming, high water, 590.3; low water.....	575.2
Lumber depot, on Long portage, 860; summit of portage.....	880
At head of Long portage (three miles from mouth).....	736
Above first rapid.....	748
Above second rapid.....	760
Above third rapid.....	770
Foot of Fountain falls.....	773
Head of Fountain falls.....	793
Head of Ragged chute.....	823
Above fourth rapid.....	830
Above fifth rapid.....	836
Above Hound chute.....	861
Portage to Mud lake.....	869
Head of sixth rapid.....	878
Head of seventh rapid.....	882
Foot of eighth rapid.....	883
Head of eighth rapid.....	902
Bay lake.....	902
Mouth of Timagami branch.....	915
Elk lake.....	918

WHITEFISH RIVER

575.2
927
247
858
858
859
864
938
942
953
968
975
1,029
971
971
996
1,001
1,005
1,007
1,006
1,023
1,028

Miles from
Lake Huron

Lake Huron, mean water (1860-1914).....	581.2
First lake.....	632
Charlton lake.....	633
Cross lake.....	733
Long lake.....	754
Fifth lake.....	754
Bear lake.....	762
Lake Panache.....	772
La Vase lake.....	772
Round lake.....	780

Miles from
Lake Huron

WANAPITEI RIVER

Confluence with French river.....	589
Route to Whitefish river.....	704
Foot of falls and rapids.....	710
Head of falls and rapids.....	770
Canadian Pacific Ry. bridge, high water.....	772
Wanapitei lake.....	876
At Canadian Northern Ry., Gowganda branch, crossing.....	1,204
Upper Wanapitei lake.....	1,329

Miles from
Lake Huron

MISSISSAGI RIVER

Elevation
above mean
sea level

0.0	Lake Huron, mean water (1860-1914).....	581.2
12.0	Mouth of Pakowagami brook.....	595
18.4	Foot of 2nd fall.....	606
18.5	Head ".....	625
21.0	Foot of 3rd fall.....	626
21.1	Head ".....	645
21.5	Foot of 4th fall.....	645
21.7	Head ".....	678
25.7	Mouth of Little White river.....	684
31.7	Foot of Grand portage.....	696
33.2	Head ".....	734
33.6	Foot of 7th fall.....	736
33.6	Head ".....	762
36.6	East boundary of Gould tp.....	770
40.6	Foot of 8th fall.....	776
40.8	Head ".....	790
45.8	North boundary of Gould tp.....	805
55.9	Head of 9th fall.....	838
61.9	End of survey.....	856

PIC RIVER

Intersection with Herrick's exploration line.....	653
Foot of first portage.....	673
Head of first portage.....	712
White Otter portage, foot of falls, 708; head of falls.....	727
Foot of third portage.....	751
Head of third portage.....	831
Foot of Dying portage.....	836
Jackfish pond.....	900
Kawepitikwia lake, at head of fifth portage.....	924
Rabbit lake.....	944
McKay lake.....	1,052
Mud lake.....	1,055

KENOGAMI RIVER

Confluence with Albany river.....	300
Pine lake.....	891
At Long island.....	600
At Pembina island.....	480
Making-ground river, at end of Summit portage.....	1,036
Long lake.....	1,017
Manitounamaig lake (N.W. of Long Lake post).....	1,033
Round lake, half mile from last.....	1,033
Muddy lake (N.W. of Long Lake post).....	1,045
Fleming lake.....	1,088
Kawaskagama lake.....	1,060
Egg lake.....	1,093
Mountain lake.....	1,100
Granite mountain on S. side of Mountain lake.....	1,300
Height-of-land on Ombabika River route.....	1,150

ONTARIO—RIVERS

439

Elevation
above mean
sea level

Miles from
Fort William

KAMINISTIKWIA CANOE-ROUTE—LAKE SUPERIOR TO LAKE WINNIPEG

Elevation
above mean
sea level

581.2	0.0	Fort William, lake Superior, mean water (1860-1914).....	602.27
595	17.7	Paresseux rapid (semi-discharge), 15 chs., ascending 5.10 ft.....	650-655
606	23.0	Canadian Northern railway bridge, water....	689
625	25.7-26.2	Kakabeka falls, Mountain portage, 62 chs., ascending 119.05 ft. (including rapids above and below the falls).....	706-825
626	26.7	Ecarté or Rocky portage, 38 chs., ascending 62.65 ft.....	827-890
645	29.7	Nicolet portage, 6 chs., ascending 6.59 ft.....	896-903
645	31.1	Island portage, 3 chs., ascending 12.62 ft.....	914-926
678	31.2	Potholes portage, 3 chs., ascending 6.90 ft.....	927-934
684	31.5	Knife portage, 5 chs., ascending 19.40 ft.....	936-955
696	31.5-31.9	Trois décharges, 35 chs., ascending 10.00 ft.....	957-967
734	33.2-33.3	Poplar portage, 8 chs., ascending 3.00 ft.....	979-982
736	36.7	Canadian Pacific Ry. bridge, high water, 1,001; low water.....	997
762	38.3	Rapid fall, 5 chs., ascending 4 ft.....	1,000-1,004
770	41.1	Portage des Martres (semi-discharge), 1 ch., ascending 4 ft.....	1,008-1,012
776	41.4	Little Dog portage, 4 chs., ascending 14.94 ft.....	1,012-1,027
790	42.8-44.6	Little Dog lake.....	1,030
805	44.6-46.2	Great Dog portage, 134 chs., ascending 348 ft.....	1,030-1,378
838	46.2-54.2	Summit of Great Dog portage, 490 ft. above Little Dog lake.....	1,520
856	46.2-54.2	Great Dog lake (221 ft. deep).....	1,378
	79.8	Barrière portage (semi-discharge), 3 chs., ascending 3.80 ft.....	1,382-1,386
	81.5	Jourdain portage, 7 chs., ascending 8.60 ft.....	1,386-1,395
	84.7	Coldwater portage, 5 chs., ascending 0.76 ft.....	1,395-1,396
	84.8	Coldwater lake.....	1,396
	84.8-87.4	Prairie portage, 210 chs., ascending 157.12 ft. to Height-of-land lake	1,396-1,553
		Summit of Prairie portage, about.....	1,586
	87.4-87.6	Height-of-land lake.....	1,553
	87.6-88.1	Middle portage, 39 chs., descending 16.39 ft. to Lac du Milieu...	1,553-1,536
	88.1-89.1	Lac du Milieu or Savanne lake.....	1,536
	89.2-90.7	Savanne portage, 101 chs., descending 31.67 ft. to Savanne river	1,536-1,504
		At Canadian Pacific Ry. bridge, 0.2 mile west of Savanne.....	1,500
	110.7-135.5	Lac des Mille Lacs.....	1,496
	135.5-135.7	Baril portage, 17 chs., ascending 1.86 ft. to Baril lake.....	1,496-1,498
	135.7-143.2	Baril lake.....	1,498
	143.2-143.5	Brulé portage, 21 chs., descending 47.02 ft.....	1,498-1,451
	143.5-151.4	Windigustigwan lake.....	*1,451
	155.4-157.2	French portage, 140 chs., descending 99.71 ft.....	1,446-1,346
	157.2-158.4	French lake.....	1,346
	168.4-168.7	Pine or Pickerel portage, 26 chs., descending 6.90 ft.....	1,345-1,338
	168.7-170.1	Doré lake.....	1,338
	170.1-170.4	Deux Rivières portage, 32 chs., descending 117.22 ft.....	1,338-1,221
	171.8-186.1	Sturgeon lake.....	1,220
	186.1-186.2	First Sturgeon rapid (semi-discharge), 11 chs., descending 4.51 ft...	1,220-1,215
	186.4	Second Sturgeon rapid, portage, 3 chs., descending 6.21 ft.....	1,215-1,209
	186.4-194.1	Tanner lake.....	1,199
	194.1	Tanner or Mininis rapid, semi-discharge, 5 chs., descending 4.50 ft	1,199-1,194
	198.7	Island portage, 2 chs., descending 10.06 ft.....	1,193-1,183
	201.5-207.9	Lac la Croix.....	1,181
	209.4	Snake portage, 5 chs., descending 12.14 ft.....	1,181-1,169
	212.4	Long or Crow portage, 8 chs., descending 9.88 ft.....	1,168-1,158
	221.8	High Falls portage, 5 chs., descending 16.08 ft.....	1,151-1,135
	223.4-224.4	Long rapid, 80 chs., descending 10.00 ft.....	1,134-1,124
	226.1	Namakan rapid, 15 chs., descending 7.00 ft.....	1,124-1,117
	227.9-234.7	Namakan lake.....	1,117

* By levels of Canadian Northern Ry., 1,443

Miles from Fort William	KAMINISTIKWIA CANOE-ROUTE—LAKE SUPERIOR TO LAKE WINNIPEG	Elevation above mean sea level
234.8	Kettle Falls or Bare portage, 6 chs., descending 8.55 ft.	1,111-1,102
235.2-269.9	Rainy lake, high water, 1,108; low water, 1,102; water (Sept. 9, 1913).	1,102
272.0	Chaudière falls, Fort Frances, portage, 8 chs., descending 23.92 ft. at low water and 22.33 ft. at high water.	1,106-1,083
303.6	Manitou rapid, 3 chs., descending 1.37 ft.	1,068-1,067
311.1	Long Sault rapid, 5 chs., descending 7.26 ft.	1,064-1,057
346.4-410.6	Lake of the Woods high water (Nov. 11, 1900), 1,062.2; low water (Mar. 24, 1894), 1,056.5; water (July 16, 1913), 1,060.8; (Sept. 20, 1911).	1,057.0
410.7	*Rat portage, 13 chs., descending 20.37 ft. (Sept. 20, 1911).	1,057-1,037
421.5	Kenora power house, high water.	1,014.9
421.6	Head of Rapides des Dalles, high water, 1,044.5; water.	1,034.6
430.0	Foot of Rapides des Dalles, high water, 1,039.9; water (Sept. 15, 1911).	1,033.5
430.1-445.1	Grand Trunk Pacific Ry. bridge, rail, 1,069; water.	1,033
445.2-445.4	Gun lake, high water, 1,040; low water.	1,033
445.2-445.4	Grande décharge or Upper White Dog rapids, 3 chs., descending 5.2 ft.	1,033-1,028
446.0	†Middle White Dog rapids, upper fall, descending 4.3 ft.	1,028-1,024
446.2	Middle White Dog rapids, middle fall, descending 15.7 ft.	1,008-1,024
446.3	Middle White Dog rapids, lower fall, descending 12.8 ft.	1,008-995
446.5-446.7	Lower White Dog rapids, descending 7.0 ft.	995-988
461.5	Confluence with English river.	988
462.5-462.6	First fall or De l'Isle portage, 3 chs., descending 3.6 ft.	988-984
462.6-465.8	Lake Tétu.	984
463.4	Ontario and Manitoba boundary, water.	984
483.9-484.1	Lamprey fall, descending 1.6 ft.	980-979
490.2-491.3	†Pointe du Bois fall, descending 46.5 ft.	979-932
492.3-492.5	Eight-foot fall or Third Pointe des Bois or Petite Roche Brûlée portage, 3 chs., descending 8.0 ft.	931-923
495.9-496.1	Slave fall, portage 30 chs., descending 18.7 ft.	923-904
502.8-502.9	Sturgeon fall, descending 1.9 ft.	903-901
505.0	**Barrière chute, 3 chs., descending 0.7 ft.	901-900
511.3	Otter fall, head of.	900
513.3	Twin fall, head of.	896
513.5	Junction with Pinawa channel.	887
517.9	Head of Upper rapid, Seven Sisters rapids§.	886

* Between Kenora (Rat portage) and lake Winnipeg, the levels are from information supplied by Mr. J. B. Challies, Supt., Water Power Branch, Dept. of Interior.

† The upper and middle falls of Middle White Dog rapids seem to represent the descent (22.02 ft.) that S. J. Dawson measured on the "Yellow-mud Falls" portage.

‡ The City of Winnipeg dam has, apparently, drowned out the Grand Galet or Chute à Jacquet portage, descent 13 ft., the Grand Point du Bois portage, descent 10.5 ft., and the Petite Pointe du Bois or aux Chiens portage, descent 19.92 ft.

** S. J. Dawson says that the Barrière chute has a descent of 4.97 feet, possibly measured when the river was low.

§ As the levelling under Mr. Challies' direction was not carried on when the water was at the same stage as when levelled by S. J. Dawson, the seven rapids enumerated by the latter, can not be absolutely identified. The Dawson levels of the 'Seven Portages' are as follows:—

First	portage, 6 chs., descending 10.23 ft.
Second	" 5 chs. " 8.47 ft.
Third	" 8 chs. " 5.60 ft.
Fourth	" 3 chs. " 7.68 ft.
Fifth	" 4 chs. " 2.90 ft.
Sixth	" 5 chs. " 8.13 ft.
Seventh	" 6 chs. " 4.75 ft.

ONTARIO—RIVERS

441

Miles from
Fort William

KAMINISTIKWIA CANOE-ROUTE—LAKE SUPERIOR TO LAKE WINNIPEG

Elevation
above mean
sea level

518.8	Foot of second rapid, Seven Sisters rapids.....	866
519.9-520.5	Middle rapid, Seven Sisters rapids.....	859-852
521.4-522.3	*Lower rapid, Seven Sisters rapids.....	851-834
522.3	Mouth of Whitemouth river.....	834
541.2	Lac du Bonnet, extreme high water, 828; water (June 26, 1911)...	821
541.3	Anse or First Galet du Bonnet or First McArthur fall, portage, 1 ch., descending 6.5 ft.....	820-813
542.0-542.1	Cap or Second Galet du Bonnet or Second McArthur fall, portage 4 chs., descending 5.9 ft.....	813-807
545.8-546.9	Grand du Bonnet fall, portage, 51 chs., descending 35.1 ft.....	806-771
547.4-547.7	Petite du Bonnet or Rocher du Bonnet fall, portage, 6 chs., descending 7.4 ft.....	771-764
550.7-551.1	Whitemud falls, portage, 15 chs., descending 12.9 ft.....	763-750
554.5-556.0	First Silver falls or Des Chênes portage, 7 chs., descending 7.2 ft.; Second Silver falls or First Eaux qui Remuent portage, 13 chs., descending 14.8 ft.....	750-728
559.0-559.2	First Muckwa rapids, descending 2.6 ft.....	728-725
560.6-560.7	Second Eaux qui Remuent or Pine falls, portage, 12 chs., descending 5.9 ft.....	723-717
562.3-562.8	Manitou rapid, portage, 2 chs., descending 1.1 ft.....	716-715
569.9	Lake Winnipeg, average level (Sept. 1 to Oct. 13, 1912).....	714.6

Miles from
Fort William

SEINE RIVER CANOE-ROUTE—LAC DES MILLE LACS TO RAINY LAKE

110.7-141.5	Lac des Mille Lacs.....	1,496
145.3	Fall, portage, 4 chs., descending 14.38 ft.....	1,488-1,474
148.8	Fall, portage, 3½ chs., descending 9.11 ft.....	1,473-1,464
156.8	Little fall, portage, 17 chs., descending 10.50 ft. and 14.10 ft....	1,458-1,433
171.0	Long rapid, portage, 10 chs., descending 21.06 ft.....	1,420-1,399
175.5	Fall, portage, 2½ chs., descending 11.56 ft.....	1,395-1,383
180.3	Island fall, portage, 2 chs., descending 18.06 ft.....	1,379-1,361
180.4-186.3	Kuminitikuchink lake.....	1,361
186.4	Portage, 3 chs., descending 3.98 ft.....	1,361-1,357
186.5-190.0	Clearwater lake.....	1,357
190.0	Cat-head portage, 2 chs., descending 7.30 ft.....	1,357-1,350
190.1-195.0	Cat lake.....	1,350
195.1	Portage, 4 chs., descending 7.48 ft.....	1,350-1,342
195.1-198.5	Moose lake.....	1,342
198.6	Fall portage, 2½ chs., descending 11.58 ft.....	1,341-1,330
200.4	Two Island fall, portage, 2 chs., descending 6.00 ft.....	1,330-1,324
200.9	Portage, 1½ chs., descending 11.80 ft.....	1,324-1,312
201.1	Steep fall, portage, 12 chs., descending 36.90 ft.....	1,312-1,275
201.2-212.7	Steep Rock lake.....	1,275
212.8-219.5	Perch lake.....	1,272
219.6-224.2	Lake-expansion.....	1,267
224.3-225.4	Falls, descending 8.81, 3.42 and 6.95 ft., respectively, and intermediate rapids, 10.30 ft., to Nonwatin lake.....	1,267-1,238

* Apparently "Lower rapid" includes the fifth, sixth and seventh rapids of the series.

Miles from
Fort WilliamSEINE RIVER CANOE-ROUTE—LAC DES MILLE LACS
TO RAINY LAKEElevation
above mean
sea level

225.4-230.6	Nonwatin lake.....		1,238
230.6	1st portage, 1½ chs., descending 6.20 ft.....		1,238-1,232
230.8	2nd " 1 ch. " 4.15 ft.....		1,231-1,227
231.6	Brûlé " 2 chs. " 31.06 ft.....		1,225-1,194
232.3	Kettle falls, portage, 1½ chs., descending 4.75 ft.....		1,192-1,187
232.9	5th portage, 1½ chs. descending 4.91 ft.....		1,185-1,180
233.9	6th " 2 chs. " 12.34 ft.....		1,178-1,166
235.0	7th " 1½ chs. " 6.25 ft.....		1,163-1,167
237.2	8th " 1½ chs. " 6.80 ft.....		1,156-1,149
237.5	9th " 1 ch. " 7.03 ft.....		1,149-1,142
238.0	10th " 2½ chs. " 7.20 ft.....		1,141-1,134
238.6	11th " 2½ chs. " 11.20 ft.....		1,133-1,122
239.5	Sturgeon Falls portage, 1½ chs., descending 11.98 ft.....		1,120-1,108
239.6	Rainy lake, high water, 1,109; low water, 1,102.....		1,109-1,102

Miles from
L. Superior

PIGEON RIVER CANOE-ROUTE

0.0	Lake Superior, mean water (1860-1914).....	602.27
7.4	Summit of Grand portage.....	1,300
8.4	Grand portage, 8 miles 30 chains, ascending 658 ft.....	601-1,259
10.6-10.8	Partridge portage, 20 chs., ascending 69.05 ft.....	1,261-1,330
20.2-21.3	Fowl portage, 91 chs., ascending 82.44 ft.....	1,356-1,438
21.3-25.9	North Fowl and South Fowl lakes.....	1,438
25.9-26.3	Moose portage, 34 chs., ascending 51.71 ft.....	1,438-1,490
26.3-31.4	Moose lake.....	1,490
31.4-31.9	Big Cherry portage, 37 chs., ascending 132.91 ft.....	1,490-1,623
32.4-32.6	Mud portage, 13 chs., ascending 9.92 ft.....	1,623-1,633
33.2-33.3	Little Cherry portage, 10½ chs., ascending 16.62 ft.....	1,634-1,651
33.4-41.2	Mountain lake.....	1,651
41.2-41.5	Watap portage, 24½ chs., ascending 12.88 ft.....	1,651-1,664
41.5-46.5	Watap lake.....	1,667
46.5-48.0	Great New portage, 118 chs., descending 138.67 ft.....	1,667-1,528
47.3	Summit of Great New portage.....	1,715
48.0-52.4	Rose lake.....	1,528
52.4	Portage, 1 ch., ascending 3.10 ft.....	1,528-1,531
53.0-53.2	Portage 17 chs., ascending 19.23 ft.....	1,532-1,551
53.2-56.4	South lake.....	1,551
56.4-56.7	Height-of-land portage, 21 chs., descending 5.74 ft.....	1,551-1,545
56.5	Summit of Height-of-land portage.....	1,595
56.7-69.5	Gunflint lake.....	1,544
69.6	Little Rock portage, 1½ chs., descending 12.75 ft.....	1,545-1,532
70.3	Mill Fall portage, 6 chs., descending 21.28 ft.....	1,532-1,511
71.1	Island portage, 23 chs., descending 46.42 ft.....	1,511-1,465
73.4	Portage, 15 chs., descending 10.42 ft.....	1,464-1,454
77.6-82.3	Birch lake.....	1,442
82.3	Portage, 1 ch., descending 5.09 ft.....	1,442-1,437
83.2	Portage, 1 ch., descending 3.96 ft.....	1,437-1,435
83.2-94.2	Saganaga lake.....	1,432
95.1-95.3	Swamp portage, 19 chs., descending 47.13 ft.....	1,432-1,385
95.2	Summit of Swamp portage.....	1,460
95.2-100.0	Cypress lake.....	1,385
100.0	Little Knife portage, 2½ chs., descending 4.88 ft.....	1,385-1,380
100.0-108.3	Knife lake.....	1,380
108.3-108.7	Big Knife portage, 33 chs., descending 19.21 ft.....	1,380-1,361
110.0	Portage, 3 chs., descending 4.90 ft.....	1,361-1,356
112.3-112.5	Carp portage, 14½ chs., descending 26.77 ft.....	1,356-1,329
112.5-116.9	Carp lake.....	1,329

Miles from
L. Superior

PIGEON RIVER CANOE-ROUTE

Elevation
above mean
sea level

117.0	Basswood or Birch Lake portage, 9 chs., descending 39.83 ft.	1,329-1,289
117.0-131.9	Basswood lake	1,289
132.0	Wood Lake portage, 7 chs., descending 13.34 ft.	1,289-1,276
132.4	Fir portage, 16 chs., descending 12.34 ft.	1,276-1,264
132.7	Portage, 7½ chs., descending 11.12 ft.	1,263-1,252
133.5	Portage, 3 chs., descending 10.84 ft.	1,252-1,241
133.5-150.2	Crooked lake	1,241
150.2	Curtain Fall portage, 8 chs., descending 26.23 ft.	1,241-1,215
150.2-154.7	Iron lake	1,215
154.7-154.9	Bottle portage, 20 chs., descending 33.77 ft.	1,215-1,181
155.0-170.0	Lac la Croix	1,181

ONTARIO—SUNDRY ALTITUDES

Algoma District

Hogan hill	865
Roberts hill, five miles N. W. of Thessalon	980
Mamainse hill	1,850
Gargantua hill	1,032
Brûlé Harbour hill	1,300
Obakamiga lake	1,177
Nagagami lake	1,020
Black Trout lake	526
Wawa lake	336
Eleanor lake	530

Bruce County

Cabot head, West bluff	890
Cabot head, South bluff	818
Cave point	720
Cape Chin	728
Smoky head	753
Lions head	815
Cape Dundas, about	880
Cape Paulett, about	980
Jones bluff	957
Hay island	940
King Point bluff	952
Malcolm bluff	964
Griffith island, about	880

Carleton County

Metcalfe village	286
Maple Hill, corner	389
Malakoff, corner half-mile S.E. of, 328; corner half-mile N.W.	310
Pierce, corner	322
North Gower, corner 1½ miles S.E. of village	297
Dwyer Hill P.O.	375
Stapledon, corner	375
Munster P.O.	425
Stanley, corner	410
Richmond, corner 1½ miles S.W. of	322
Baxter, corner	330
Watterson, corner	296
Manotick, cross roads 0.1 mile N. of P.O.	287
Dawson, corner	310
Dalmeny, corner	258
Reid Mills	325

ONTARIO—SUNDRY ALTITUDES

Elevation
above mean
sea level

Carleton County

South March P.O.	256
Harwood Plains P.O.	282
Malwood P.O.	300
Eagleson, corner	366
Old Stittsville	397
Hazeldean P.O.	336
Bell Corner	301
Fallowfield, cross roads half-mile S. of	309
Jockvale, corner quarter-mile N. of P.O.	328
South Gloucester	336
Leitrim P.O.	343
Orleans, corner, lots 4 and 5 and Montreal road	220
Blackburn P.O.	268
Vernon, corner 1 mile N. of P.O.	255
Metcalfe, corner	278

Dundas County

Froatsburn, cross roads 0.1 mile N. of	280
Hoasic, cross roads 0.2 mile E. of	286
Glen Becker, cross roads	281
Rowena P.O.	288
Irena, cross roads near P.O.	269
Haddo, corner $\frac{1}{2}$ mile E. of	263
Brouseville, corner $\frac{1}{2}$ mile N. of	266
Shanly P.O.	266
Glen Stewart, corner near	249
Brinston, P.O.	243
South Mountain, intersection of Mountain Station and Hyndman roads	259
Morewood P.O.	251
Cass Bridge P.O.	237
Elma, cor. lots 24 and 25 and cons. VI and VII, Williamsburg	260
Beckstead, cor. lots 6 and 7 and cons. VI and VII, Williamsburg	293
Grantley P.O.	288
Colquhoun, cross roads one mile N. W. of	293
Williamsburg, church	186

Elgin County

Orwell	744
Mapletown village	807
New Sarum	690
Copenhagen, cross roads quarter-mile N. of	713
Luton, cross roads 1.2 miles E. of	731
Malahide, cross roads half-mile E. of	746

Essex County

New Canaan	600
North Ridge	650
Woodslee	600
Goldsmith	625
Ruthven	675
Olinda	700
Malden Centre	600
Sunnyside	575
Oldeastle	625

ONTARIO—SUNDRY ALTITUDES

Elevation
above mean
sea level

Frontenac County

Bedford Township—	
Thalweg between Horswell lake and Fish brook, lot 26, con. I	665
Same, between Fish and Eagle brooks, lot 25, con. II	653
Same, between Bobs lake and St. Andrews brook, lot 16, con. I	588
Thirteen-island lake	497
Bobs lake	575
Canoe lake	465
Devil lake, high water, 433; low water	431
Mud lake	448
Birch lake	449
Desert lake	450
Canonto Township—	
Lower Trout lake	925
Upper Trout lake	944
Clyde river, at mouth of Sunday brook	795
Same, at road bridge, lot 31, con. II	824
Clarendon Township—	
Thalweg between S.W. cor. Palmerston and swamp, lot 1, con. I	911
Swamp, lot 3, con. II	880
Country south of Gull lake, lot 4, con. IV	927
Thalweg between Gull and Pine lakes, lot 12, con. IV	948
Same, between Pine lake and Green Lake brook, lot 16, con. IV	894
Same, between Green Lake brook and Mississippi river, lot 24, con. IV	891
Same, between Mississippi river and Bucksnot brook, lot 36, con. VIII	924
Same, between Bucksnot brook and brook at Playfair's, lot 45, con. IX	948
Green Lake brook, at Frontenac road bridge	856
Mississippi river, at Frontenac road bridge	820
Swamp brook, at Frontenac road bridge, lot 3, con. VI	829
Bucksnot brook, at Frontenac road bridge	896
Gull lake	855
Pine lake	860
Hinchinbrooke Township—	
Cold brook, lot 4, con. III	496
Thalweg between Napanee river and Cold brook, lot 1, con. III	525
Same, between St. Andrews lake and Elbow brook, lot 13, con. II	610
Same, between Elbow and Fish brooks, lot 22, con. II	609
Kingston Township—	
Thalweg between Collins and Little Cataraqui brooks, lot 12, con. IV	372
Same, between Collins brook and Loughborough lake, lot 10, con. VII	461
Same, between Collins and Glenvale brooks, lot 1, con. V	423
Same, between Mud and Glenvale brooks, lot 5, con. VII	471
Same, between Mud and Collins brooks, lot 13, con. IV	371
Loughborough Township—	
Thalweg between Loughborough and Sydenham lakes, lot 6, con. III	531
Same, between Sydenham and Knowlton lakes, lot 1, con. VI	542
Same, between Thirteen-island and Desert lakes, lot 2, con. XIV	560
Loughborough lake	401
Gould lake	458

ONTARIO—SUNDRY ALTITUDES

Elevation
above mean
sea level

Frontenac County

Loughborough Township—	
Knowlton lake.....	449
Thirty-three Island lake.....	449
Sucker lake.....	450
Otter lake.....	453
Miller Township—	
Brûlé lake.....	872
Buckshot lake.....	970
Brook near Playfair corners, lot 8.....	909
Thalweg opposite Brûlé lake, lot 13, con. V.....	910
Same, lot 12, con. IV.....	980
Big brook, lot 15, con. II.....	974
Summit, lots 27 and 28, cons. I. and II.....	1,161
Swamp, lot 35, con. III.....	1,022
North boundary of township, lot 40, con. III.....	977
Thalweg between swamp and north boundary, lot 38, con. II.....	1,059
Same, between Buckshot and Brûlé lakes, lot 12, con. IV.....	1,038
Olden Township—	
Thalweg between St. George and Sharbot lakes, lot 10, con. XI.....	686
Swamp, lot 13, con. III.....	704
Thalweg between Long lake and swamp, lot 13, con. III.....	777
Sharbot brook, near Soles corners, lot 19, con. V.....	718
Thalweg between Sharbot and Beaver lakes, lot 22, con. VI.....	853
White lake.....	689
Long lake.....	614
Hartney hill.....	780
Beaver lake.....	843
Thalweg between Beaver lake and south-west angle of Palmerston, lot 30, con. VII.....	916
Oso Township—	
Thalweg between Crow and Sharbot lakes, lot 9, con. V.....	753
Bolton brook, lot 23, con. VII.....	599
Bolton brook, lot 22, con. IV.....	643
Thalweg between Bolton brook and Mississippi river, lot 29, con. VI.....	790
White Loon lake.....	740
Armstrong lake.....	580
Silver lake.....	578
Palmerston Township—	
Blinc lake.....	910
Antoine lake.....	900
Lavant road, lot 28, con. IX.....	943
Thalweg between Mississippi river and Antoine lake, lot 23, con. IX.....	928
Same, between Clyde river and Antoine lake, lot 28, con. X.....	945
Southwest angle of township, lot 2, con. I.....	858
Sunday Lake brook, lot 27, con. VIII.....	878
Summit at McKenzie's, lot 26, con. VIII.....	990
Same, at Watt's, settler's road, lot 25, con. XI.....	919
Mississippi river, lot 10, con. X.....	644
Hill on Mississippi road, lot 25, con. VIII.....	1,024
Hill, five miles west of Robinson lake, on Lavant road.....	1,003
Junction of Mississippi and Lavant roads.....	932
Portland Township—	
Thalweg between Mud brook and Peter lake, lot 3, con. III.....	408
Same, between Big brook and lot 7, con. V.....	449

ONTARIO SUNDRY ALTITUDES

Elevation
above mean
sea level

Frontenac County

Portland Township -	
Thalweg between Collins and Mud brooks, lot 2, con. I.....	476
Same, between Mud and Big brooks, lot 4, con. IV.....	519
Same, between Big brook and Napanee river, lot 7, con. VIII	535
Same, between Napanee river and Sydenham lake, lot 3,	
con. VIII.....	586
Mud, Napanee, Silver, Rock and Long lakes.....	447
Wolfe Island—	
Summit, N.E. cor. lot 1, con. VII.....	333

Glengarry County

McGillivray bridge.....	181
Munroe Mills, corner half-mile E. of.....	247
Glen Gordon.....	184
St. Raphael, corner 1½ miles N E of.....	240
McCrimmon.....	240
Skye, corner half-mile south of.....	253
Fassifern.....	327
Lochiel.....	285
Bridge End, corner.....	206
Glen Nevis, corner quarter-mile N. of P.O.....	252

Grenville County

Maynard, bridge near P.O.....	338
South Augusta, corner quarter-mile W. of P.O.....	389
Throoptown, church.....	343
Roebuck, corner.....	336
Domville P.O.....	378
Bishop, corner.....	351
East Oxford, corner quarter-mile N. of P.O.....	361
McReynolds P.O.....	348
Groveton P.O.....	349
Hyndman corner.....	278
Spencerville, bridge over South Nation river, 296; corner.....	302
Millar, corner quarter-mile N. of P.O.....	330
Heckston, corner one mile N.W. of village.....	293

Grey County

Skinner bluff.....	952
Esther cliff.....	953
Halliday hill.....	952
Dodd hill.....	1,013
Pyette hill (top of trees).....	1,053
Coffin hill.....	935
'The Clay Banks'.....	950
Cape Rich bluff, lot 32, con. VII, St. Vincent tp.....	1,005
Bluff, lot 10, con. V, St. Vincent tp.....	1,075
Hill, lot 9, con. II, St. Vincent tp.....	1,090
Blue Mountains—	
Bluff, lot 24, con. IV, Collingwood tp.....	1,295
Bluff, lot 18, con. IV, Collingwood tp.....	1,555
Bluff, 'The Caves,' lot 13, con. II, Collingwood tp.....	1,625
Osler bluff, lot 6, con. I, Collingwood tp.....	1,655

ONTARIO SUNDRY ALTITUDES

Elevation
above mean
sea level

Haldimand County

Cheapside P.O.	622
Rainham Centre P.O.	625
Kohler P.O.	662
Cayuga, Talbot Road bridge	598
South Cayuga corner of cons. VI and VII and South Cayuga and Dunn town-line.	638
Cayuga, court house.	648
Cayuga, Grand River bridge, 593; water.	576
Kohler, B.M., west end, stone steps, S. door, Evangelical church.	659.38

Halton County

Nelson P.O.	575
Appleby P.O.	410
Palermo P.O.	510
Trafalgar P.O.	560
Glenorchy P.O.	600
Mount Nemo P.O.	925
Mount Nemo, summit	1,000
Boyne P.O., nearly	610

Kenora District

Lake St. Joseph	1,185
Lac Seul	1,153
Sandbar lake	1,035
Wilcox lake	1,030
English river, at mouth of Red Lake river	1,105
Sturgeon lake	1,327
Brûlé lake	1,389
Jigak lake	1,390
Pine lake (English river)	1,338
Kukukus lake	1,281
Pagutchi lake	1,371
Sand Point lake	1,337
Orang-outang lake	1,339
Kashabwi lake	1,263
Minnitaki lake	1,154
Kapikwabekkak lake	1,215
Kekekawabek lake	1,242
Sandy lake	1,190
Little Sandy lake	1,286
Rosamond lake	1,332
Favel lake	1,222
East lake	1,277
Weld lake	1,273
Spectacle lake	1,265
Candle lake	1,258
Caribou lake	1,258
Don lake	1,220
Cache lake	1,182
Star lake	1,167
Northwest lake	1,138
Summit lake	1,165
Rocky lake	1,131

ONTARIO-SUNDRY ALTITUDES

Elevation
above mean
sea level

Kenora District

Hall lake.....	1,125
Seal lake.....	1,125
Bluff lake.....	1,175
Grindstone lake.....	1,090
Corn lake.....	1,062
Ena lake.....	1,062
Inn lake.....	1,036
Gun lake.....	1,040
Winnie lake.....	1,140
Long lake.....	1,086
Bludgeon lake.....	1,118
Dooley lake.....	1,196
Alder lake.....	1,227
Mud lake.....	1,291
Rock lake.....	1,285
Clearwater lake.....	1,325
Hodgins lake.....	1,294
Good lake.....	1,257
Walsh lake.....	1,328
Park lake.....	1,278
Bailey lake.....	1,276
Ragged Wood lake.....	1,231
Moose lake.....	1,251
Highstone lake.....	1,195
Schist lake.....	1,238
Kimmewin lake.....	1,203
Clear lake.....	1,345
Bent lake.....	1,283
Stanzhikimi lake.....	1,178
Stranger lake.....	1,195
Dog lake.....	1,178
Miners lake.....	1,336
Long lake.....	1,261
Clay lake.....	1,068
Doré lake.....	1,212
Stanawan lake.....	1,206
Minnehaha lake.....	1,206
Peak lake.....	1,234
Saganaga lake.....	1,270
Aiabewatik lake.....	1,310
Lawrence lake.....	1,125
Lake Rowan.....	1,080
Brooks lake.....	1,169
Cameron lake.....	1,079
Kakagi lake.....	1,099
Hawk-rock lake.....	1,242
Amik lake.....	1,263
Otter lake.....	1,270
Barrel lake.....	1,319
Bell lake.....	1,389
Indian lake.....	1,337
Mameigwess lake.....	1,339
Abamategwia lake.....	1,332
Raleigh lake.....	1,495
Kekwanzik lake.....	1,402

ONTARIO—SUNDRY ALTITUDES

Elevation
above mean
sea level

Kent County

Quinn, cross roads one mile S.W. of	604
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Lambton County

Erroll	625
Hillsborough	650
Uttuxeter village	700
Cedar Point	600

Lanark County

North Montague, cross roads half-mile E. of	393
Prospect corner	396
Lavant Township—	
South branch Clyde river, lot 15, con. IX.	603
me, lot 16, con. IX	682
Hillweg on Lavant road, lot 7, con. X	1,045
Lowest point, Robinson lake to Mississippi road, lot 9, con. XII	812
Lavant road—	
Small lake on north side, lot 7, con. V	934
Old clearing, one mile west of Robinson lake	1,045
Hill, two miles west of Robinson lake	1,024
Bed of stream flowing to Graham lake, lot 9, con. XI ..	841
Little Joe lake	604
Cameron or Round lake	628
Robinson lake	953
Graham lake	836
Beaver lake	881

Leeds County

Rockport	316
Row corner	348
Bethel church	365
Junetown corner	378
Caintown, bridge $\frac{1}{2}$ mile W. of P.O.	395
Charleston lake	280
Charleston lake, hill east of	625
Lillies, corner near P.O.	401
Elolda, opposite school	430
Frankville	381
Toledo P.O., nearly	400
Rocksprings P.O.	429
New Dublin	417
Spring Valley	386
Escott Centre	350
Mitchellville	325
Bowell	325
Tilley	325
Trevelyan	400
Greenbush	400

Lincoln County

Boyle	601
Campden corner	611
Vineland corner	354
Rockway corner	556

ONTARIO

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ONTARIO—SUNDRY ALTITUDES

Elevation
above mean
sea level

Lincoln County

St. David, junction of St. Catharines and Creek roads.	342
Homer P.O.	465
Virgil, corner.....	302
Wilcox, corner $\frac{1}{2}$ mile E. of	645
Winslow corner.....	603
Abingdon corner.....	655
Caistorville P.O.	621
Warner.....	608

Manitoulin District

Manitoulin Island—	
Wekwemikong hill	905
Church hill.....	880
Horsburgh hill.....	770
Burnt summit.....	980
Cape Smith.....	950
'The Rock', Manitouaning.....	747
Sheguiandah hill.....	1,015
Top of bluff, lot 5, con. VI, Howland tp.	947
High hill, lot 30, con. VII, Bidwell tp.....	1,120
Dutchman head.....	760
Maple bluff.....	843
East bluff.....	735
Gore bay, bluff on east side.....	835
Janet head.....	729
Battery bluff.....	820
Britomart point.....	773
North Channel—	
Northeast hill (Carlyle tp.).....	1,760
Gulch hill.....	1,535
Killarney peak.....	1,385
Leading-mark hill.....	1,460
Broad hill.....	1,234
Fraser Bay hill.....	1,210
Lions Rump hill.....	1,050
Lions Head hill.....	1,034
Badgley island.....	950
Partridge island.....	770
Heywood island.....	755
Aird island.....	774
McQuaig hill (Cockburn island).....	1,060

Middlesex County

Christina.....	750
Hyde Park corner.....	892
Kilworth Bridge.....	725
Delaware.....	775
Howlett.....	800
Calder village.....	804
Hopedale.....	850
Woodbank.....	875
Lambeth.....	856
Tempe.....	837
Littlewood.....	800

ONTARIO—SUNDRY ALTITUDES

Elevation
above mean
sea level

Middlesex County

Paynes Mills	750
Wolsley Barracks	850
Pottersburg	859
The Gore	848
Pond Mills	900
Wilton Grove	875
Hubrey	925
Glanworth	872
Derwent	900
Belmont	850
Adrian	825
Harrietsville	886
Mossley village	970
Glendale village	897
Byron	800
Odell	900
Walker pond	900
Chelsea Green	800

Muskoka District

Highest point on road between Utterson and Port Sydney	1,098
Town-line between Chaffey and Brunel at lot-line 11 and 12	1,190

Niagara County

Brock monument, base, 598; top	723
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Nipissing District

Kapitawewegimok lake	1,040
Sesekinika lake	1,011
Swan lake	1,019
Twin lake	1,019
Wolf lake	1,019
Amikougami lake	1,020
Goldfish lake	1,025
Kirkland lake	1,035
Gull lake	1,055
Beaverhouse lake	950
Grassy lake	876
Round lake	895
Blanche river, below Kenogami station	996
Otto lake	970
Fork lake	920
Frederick-house lake	894
Nighthawk lake	895
Mount Sinclair	1,600
Collins mountain	1,700
Labyrinth lake	916
Height-of-land, at Interprovincial boundary	1,138
Larder lake	954
Grassy lake (Round lake)	876
St. Antoine lake	953
Margaret lake	990

ONTARIO

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ONTARIO—SUNDRY ALTITUDES

Elevation
above mean
sea level

Nipissing District

Lynx lake.....	1,025
Cole lake.....	1,045
Turner lake.....	1,057
Annina-nipissing lake.....	1,070
Breeches lake.....	1,085
Mannajigama lake.....	1,075
Trout lake.....	857
Obabika lake.....	932
Gull lake.....	1,055
Bear lake.....	997
Angus lake.....	1,051
Three-portage lake.....	966
Rankin lake.....	976
Miller lake.....	977
Kettle lake.....	1,015
Nosbonsing lake, high water, 781; mean water.....	776
Emerald lake.....	1,009
Sharp lake.....	905
Mud lake.....	900
Skunk lake.....	1,078
Lady Evelyn lake.....	930
Nonwakaming lake.....	955
Big Whitefish lake.....	1,010
Campbell lake.....	648
Barlow lake.....	653
Elbow lake.....	678
Red Deer lake.....	685
Otter lake.....	984
Denedus lake.....	1,022
Wasaksinagama lake.....	1,025
Green lake.....	1,046
Brophy lake.....	1,056
Ingall lake.....	1,050
Jumping Caribou lake.....	1,048
Upper Twin lake.....	993
Lower Twin lake.....	977
Mann lake.....	975
Norris lake.....	935
Hanging-stone lake.....	919
Turtle lake.....	1,010
Manitopipawgi lake.....	922

Norfolk County

Frogmore.....	689
Walsingham Centre.....	636
Langton.....	748

Ontario County

Glasgow P.O., cross roads 1 mile southwest.....	960
Glen Atha, Canadian Pacific Ry. crossing, $\frac{3}{4}$ mile northeast.....	813
Claremont P.O., crossroads 1 mile northeast.....	835
Balsam P.O., cross roads half-mile southwest.....	746
Brougham P.O., cross roads $1\frac{1}{4}$ miles northwest.....	776

ONTARIO—SUNDRY ALTITUDES

Elevation
above mean
sea level

Ontario County

Greenburn, cross roads half-mile north.....	555
Whitevale corners, cross roads 1 mile northeast.....	707
Belford corner.....	682
Clarke Hollow, cross roads half-mile east.....	563
Decker Hill, cross roads.....	403
Pickering, cross roads $\frac{1}{2}$ mile southwest.....	287
Liverpool Market, cross roads half-mile south.....	314
Dunbarton P.O., cross roads $\frac{1}{2}$ mile southwest.....	347
Rouge Hill P.O., cross roads $3\frac{1}{2}$ miles northwest.....	404
Udney P.O., cross roads.....	762
Millington P.O., cross roads $\frac{1}{2}$ mile S.E. of.....	737
Brechin P.O., cross roads.....	767
Little lake.....	751
Sebright P.O., cross roads.....	785
Ramona P.O., road opposite.....	757
Fawkham P.O., road opposite.....	761
Fawkham P.O., 200 ft. north of.....	750
Rathbun P.O., cross roads.....	756
Vallentyne P.O., cross roads.....	880
Pinedale P.O., cross roads.....	1,025
Hill, half-mile east of Pinedale P.O.	1,070
Derryville P.O., cross roads.....	939
Wilfrid P.O., cross roads.....	793
Cannington P.O., cross roads.....	859
Vroomanton P.O., corner quarter-mile southeast.....	885
Uptergrove P.O., corner.....	738
North Mara P.O., cross roads half-mile southwest.....	735
Lake St. John, high water, 722; low water.....	713
Mud lake, high water, 722; low water.....	714

Patricia District

Cat lake.....	1,330
Wapasinni lake.....	1,390
Geeshika or Cedar lake.....	1,250
Windigo lake.....	1,200
Weagamow lake.....	1,000
Faun or Trout lake.....	770
Suttor-mill lake.....	290
Weibikwei lake.....	670
Eabamet lake.....	900
Attawapiskat lake.....	815
Attawapiskat river, at mouth of Mississaugaigan river.....	500
Bluffy lake.....	1,220
Fly lake.....	1,356
Lower Clearwater lake.....	1,320
Shaboomene lake.....	1,330
Snake lake.....	1,270
Woman lake.....	1,315
Little Shallow lake.....	1,106
Shallow lake.....	1,105
Trout lake.....	1,295
Little Trout lake.....	1,294
Gull-rock lake.....	1,146
Bug lake.....	1,266

ONTARIO SUNDRY ALTITUDES

Elevation
above mean
sea level

Patricia District

Red lake.....	1,146
Lower Medicine-stone lake.....	1,200
Upper Medicine-stone lake.....	1,210
Long-legged lake.....	1,175
Little Vermilion lake.....	1,173
Summit of portage, Whitefish-spawning river to White river.....	1,285
Pekangikum lake.....	1,037
Sturgeon lake.....	1,051
Hair lake.....	1,178
Goose lake.....	1,196
Fairy lake.....	1,261
Upper Goose lake.....	1,262

Peel County

Niagara escarpment, half-mile S.E. of Credit Forks..	1,450
Niagara escarpment, one mile S. of Mono Mills..	1,500
Niagara escarpment, three miles N. of Caledon.....	1,550
Mono Mills P.O., nearly.....	1,410
Campbell Cross, corner 0.8 mile S.W. of.....	947
Sandhill, corner.....	900
Maeville, Canadian Pacific railway crossing.....	876
Mayfield P.O., nearly.....	840
Tullamore, cross roads one mile east of.....	711
Tullamore village, nearly.....	775
Stanley Mills, corner one mile east of.....	651
Wildfield.....	725
Tormore, corner $\frac{1}{2}$ mile W.S.W. from.....	755
Sleswick, nearly.....	1,410
Albion.....	925
Palgrave, corner half-mile S.E. of.....	966
Caledon East, corner 0.1 mile N.W. of P.O.....	954
Lockton P.O., nearly.....	985
Castlederg, corner.....	865
Coleraine P.O., nearly.....	700
Bolton station, road crossing one mile E. of.....	500
Star P.O., nearly.....	1,500
Black Horse corner, cross roads half-mile east.....	796
Ballycroy P.O., cross roads $1\frac{1}{2}$ miles east.....	995
Kaywood mills, cross roads $1\frac{1}{2}$ miles west.....	1,044
Castlederg corner.....	865
Mono Road P.O., Canadian Pacific Ry. crossing $\frac{1}{2}$ mile east.....	972
Kilmanagh corner, cross roads 1 mile south.....	971
Caledon East P.O., corner.....	954
Caldwell P.O., cross roads $\frac{1}{2}$ mile northeast.....	1,049
Inglewood P.O., cross roads $1\frac{1}{2}$ miles northwest.....	910
Victoria corner.....	947

Peterborough County

Round lake.....	649
Limestone cliffs on south shore of Round lake.....	719
Belmont lake.....	608
Big island, Belmont lake.....	734
Belmont iron mine.....	651
Ontario Rock Co's crusher, end of spur track. 650; hill east of.....	739

ONTARIO—SUNDRY ALTITUDES

Elevation
above mean
sea level

Prescott County

Routhier.....	215
Sandown.....	214
Fournier, cross roads half-mile west of.....	213
Rose Corner P.O.....	209
Lemieux, cross roads.....	214
Cassburn P.O.....	264
Ritchance, cross roads.....	169
Plantagenet, South Nation river, water, 139; corner $\frac{1}{2}$ mile N.E.....	201
Henry, cross roads half-mile N.N.W. of.....	234
Ste. Anne-de-Prescott, cross roads.....	220

Rainy River District

Kishkutena ridge, near Rainy lake.....	1,600
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Renfrew County

Admaston Township—	
Thalweg between Bonnechère river and Hall brook, lot 4, cons. IX and X.....	676
Same, bet. Bonnechère river and Holliday brook, lot 3, con. IX.....	676
Same, bet. Constan brook and Norway lake, lot 5, con. XIV.....	682
Alice Township—	
Thalweg between Indian and Snake rivers, lot 1, con. A....	540
Bagot Township—	
Thalweg bet. Calabogie lake and Holiday brook, lot 26, con. IX.....	598
Same, between Calabogie and Norway lakes, lot 21, con. X.....	580
Holliday hill.....	626
Norway lake.....	539
Allack lake.....	649
Pero lake.....	553
Blithfield Township—	
Thalweg between Mile and Clyde lakes, lot 4, con. II.....	666
Clyde lake.....	640
Mile lake.....	612
Bromley Township—	
Thalweg between Snake and Bonnechère rivers, lot 4, con. VII.....	515
Snake river, lot 20, con. IV.....	444
Brougham Township—	
Thalweg between Brady and Ferguson brooks, lot 1, con. XII.....	598
Same, bet. Bonnechère river and Holliday brook, lot 5, con. XIV.....	682
Mount St. Patrick,	1,383
Grattan Township—	
Eganville, Bonnechère river at road bridge, 528; bridge.....	542
Eganville, road opposite post office.....	540
Eganville, summit of road to Grand Trunk Ry. station.....	624
Thalweg bet. Constan lake and Bonnechère river, lot 3, con. IV.....	706
Swamp, lot 36, con. XI.....	827
Constan lake.....	637
Griffith Township—	
Trout lake, high water, 1,246; low water.....	1,243
Constan hill.....	1,436
McGregor's tavern.....	1,353
Pembroke Township—	
Indian river, lot 14, con. I.....	383

ONTARIO—SUNDRY ALTITUDES

Elevation
above mean
sea level

Renfrew County

Westmeath Township—	
Muskrat lake, low water.....	408
Mud lake, low water.....	408
Wilberforce Township—	
Bonnechère river, lot 20, con. VIII.....	531
Thalweg between Bonnechère river and brook, lot 14, con. VII	693
Brook, lot 14, con. XI.....	558
Brook, lot 7, con. XIII.....	554
Thalweg between last two brooks, lot 8, con. XII.....	612
Same, between last brook and Snake river, lot 6, con. XIII...	583
Snake river, lot 6, con. XVII.....	468
Brook, lot 8, con. XXI.....	563
Thalweg between last brook and Snake river, lot 8, con. XX	577
Doré lake, low water.....	468

Miles from
Opeongo

Renfrew County—Opeongo Road

Brougham Township—		
0.6	Constan creek.....	612
0.9	Summit, lot 20.....	668
1.4	Depression, near school, lot 24.....	633
Grattan Township—		
3.1	Summit, lot 35.....	737
3.2	Junction with Aird road.....	725
3.7	Depression, lot 39.....	673
5.4	Junction with Trout Lake road (Dolan pass), lot 48.....	696
8.1	Summit, lot 60.....	781
9.0	Constan creek, lot 66.....	554
10.2	Summit, lot 71.....	834
Sebastopol Township—		
12.0	Marsh, lot 63.....	738
12.6	Summit, lot 57.....	825
12.8	Junction with Hyland Lake road, lot 52.....	777
13.1	Clear lake, high water, 759; low water.....	755
15.5	Clontarf P. O., lot 50.....	803
16.4	Summit of Plaunt hill, lot 35.....	1,396
17.0	Summit of hill, lot 31.....	1,443
17.3	Mountain or Bass lake, water.....	1,332
18.7	Depression, near Holterman's, lot 26.....	1,343
19.3	Summit of hill near school, lot 18.....	1,519
20.3	Opposite Madrid P. O., lot 13.....	1,449
21.7	Summit of hill, lot 7.....	1,654
	Pond, divide between Bonnechère and Madawaska waters, lot 1	1,409
Brudenell Township—		
21.9	Town line between Sebastopol and Brudenell, summit.....	1,431
22.7	Creek, lot 313.....	1,305
23.6	Summit of hill, lot 307.....	1,393
24.8	Depression, lot 299.....	1,225
26.3	Junction of Rockingham road, lot 289.....	1,216
26.9	Depression, lot 285.....	1,193
27.6	Summit, lot 280.....	1,297
28.2	Depression, lot 276.....	1,190
29.4	Summit, lot 269.....	1,311
30.7	Brennan creek, lot 260.....	1,071

Miles from
Opeongo

ONTARIO—SUNDRY ALTITUDES

Elevation
above mean
sea level

Renfrew County—Aird and Hyland Lake Roads

Kennewick County - Aird and Hyland Lake Roads		
<i>Aird Road—</i>		
5.7	Lake, water.....	1,083
6.2	Creek, water.....	1,083
7.1	Summit.....	1,248
8.0	Depression.....	1,053
8.4	Junction with Trout Lake road.....	1,185
8.5	Summit.....	1,237
9.2	Depression.....	1,173
10.6	Summit.....	1,396
11.6	Creek, water.....	1,202
12.3	Summit of hill near Constans.....	1,436
14.6	Creek, water.....	1,271
15.4	Summit.....	1,320
18.4	Madawaska river at "Wright and Batson's," water.....	891
<i>Hyland Lake Road—</i>		
14.6	Forks of creek.....	851
15.7	Small lake.....	1,087
16.4	Summit of hill.....	1,371
17.6	Hyland lake.....	1,160

Russell County

Daniston corner.....	243
North Branch, corner half-mile N. of P.O.....	242
Bearbrook, corner quarter-mile S. of P.O.....	217
Navan P.O.....	277
Chartrand, corner half-mile N. of P.O.....	291
St. Albert, South Nation river, water, 183; bridge, 210; corner	215
Mayerville corner, cons. IX and X, lots 9 and 10.....	233
Bourget P.O.	202
Ste. Thérèse P.O.	266
Duncanville P.O.....	247

Simcoe County

Christian island, about.....	880
Beckwith island, top of trees.....	898
Hope island, top of trees.....	870
Giants Tomb island, top of trees.....	830
Thunder bay, bluff on east side.....	938
Lafontaine hill.....	1,040
Penetanguishene, Reformatory hill.....	790
Victoria Harbour, bluff behind, about.....	780
Lefroy P.O., cross roads quarter-mile west.....	791
Churchill P.O., cross roads.....	930
Stroud, cross roads.....	883
Vine, cross roads 1½ miles west.....	1,017
Holly, cross roads.....	1,008
Painswick P.O., cross roads.....	814
Cundle P.O., cross roads.....	939
Crown Hill P.O., cross roads.....	834
Dalston P.O., cross roads.....	880
Midhurst P.O., corner.....	800
Gilchrist, cross roads.....	925
Edgar P.O., cross roads.....	1,078
Guthrie P.O., corner near.....	924

ONTARIO

459

Elevation
above mean
sea level

ONTARIO—SUNDRY ALTITUDES

Elevation
above mean
sea level

Simcoe County

.083	Price Corners P.O., cross roads.....	877
.083	East Oro, cross roads.....	933
.248	Rugby, cross roads.....	893
.053	Carylon P.O., half-mile northwest of	686
.185	Ardtree P.O., half-mile northwest of	816
.237	Bass lake, low water.....	826
.173	Lake St. George, low water.....	756
.396		
.202		
.436		
.271		
.320		
.891		

Stormont County

.851	Bush Glen, cross roads quarter-mile east of	301
.087	Cannamore, cross roads.....	256
.371	Glenpayne, cross roads.....	243
.160	Sandringham.....	307
	Fayside.....	268
	Bouville.....	287
	McMillan corner, cross roads quarter-mile west of P.O.	319
	Northfield.....	352
	Lunenburg.....	281
	Goldfield.....	258

Sudbury District

243	Long Point lake.....	1,055
242	Spawning lake.....	1,150
217	Everett lake.....	1,120
277	Obushkong lake.....	1,106
291	Firth lake.....	1,140
215	Elkhorn lake.....	1,205
233	Pigeon lake.....	1,205
202	Pike lake.....	1,040
266	Crotch lake.....	1,084
247	Mistinikon lake.....	1,065
	Duncan lake.....	1,092
	Nest lake.....	1,040
	Birch lake.....	1,037
	Portage lake.....	1,035
	Ramsay lake.....	810
	Jowsey lake.....	1,080
	Opishingkwa lake.....	1,050
	Otter lake.....	1,116
	Star lake.....	1,065
	Sedge lake.....	1,060
	Léveille lake.....	1,065
	Turtle lake.....	1,085
	Carlton lake.....	1,055
	Emma lake.....	812
	Whitson lake.....	937
	Wakimika lake.....	935
	Wawiyagama lake.....	917
	Grassy lake.....	877
	Wawiyashkashi lake.....	877
	Three Nations lake.....	930

ONTARIO—SUNDRY ALTITUDES

Elevation
above mean
sea level

Sudbury District

Bobs lake.....	915
Porcupine lake.....	911
Simpson lake.....	909
Edwards lake.....	951
Pearl lake.....	1,023
Gillies lake.....	1,008
Miller lake.....	1,010
Dushabanning lake.....	1,310
Deschenes lake.....	1,283
Cloche mountains—	
Cloche bluff.....	800
East knob.....	1,330
White mountain.....	1,335
West knob.....	1,165
The Notch.....	1,103
Round hill.....	1,119
Post hill.....	1,005
McBean mountain.....	1,208
Mount Victoria.....	1,063
Onaping lake.....	1,350
Lower Onaping lake.....	1,343
Pogamasing lake.....	1,181
Windy or Makoping lake.....	1,060
Whitewater or Nitawagami lake.....	835
Vermilion or Mazinwani lake.....	786
Fairbank or Washaigamog lake.....	867
Bannerman lake (Moncrieff tp.).....	1,270
Crooked lake (Cartier tp.).....	1,348
Geneva lake.....	1,345

Thunder Bay District

Paugon hill.....	1,450
Tip-top hill.....	2,120
Michipicoten island.....	1,538
Oiseau Bay hill.....	1,500
Peninsula Harbour hill.....	1,400
Schreiber hills.....	1,450
Winston hill.....	1,600
Isle St. Ignace, summit.....	1,864
Nipigon bay, hill at west end.....	1,600
Mount Rowan, west of lake Helen.....	1,350
Lake Nipigon (area of water surface, 1,730 sq. miles; of watershed, 6,460; total area of basin, 8,190 sq. miles), high water, 852; low water.....	850
Thunder cape.....	1,950
McKay mountain.....	1,600
Pie island.....	1,450
Sand lake.....	1,330
Whitefish lake.....	1,530
Arrow lake.....	1,510
Silver mountain.....	1,730
Rabbit mountain.....	1,400
Victoria P.O.....	850

ONTARIO—SUNDRY ALTITUDES

Elevation
above mean
sea level

Thunder Bay District

915	Beaver P.O.	937
911	Hymer station	876
909	Nolalu station	1,056
951	Ground, north of Nolalu, 1,200; south of (lot 2, con. II)	1,500
023	Ground, north of Whitefish, con. III, Strange tp.	1,600
008	Ground, lot 65, con. II, Strange tp.	1,700
010	Ground, lot 1, con. V, Strange tp.	1,500
310	Divide between Whitefish river and creeks to south, con. I, Lyster	1,350
283	Northern Light lake	1,442
	Twin lake	1,485
800	Nonwatan lake (Black Sturgeon river)	738
330	Black Sturgeon lake, high water, 832; ordinary water	829
335	Kakawipitchwi lake	905
165	Round lake (Gull river)	1,373
103	Lac des Iles (Dog river)	1,568
119	Battery lake	1,568
005	Pakeeshkon lake	1,527
208	Chief lake	1,201
063	Trout lake	1,225
350	Upper Twin lake	1,235
343	Lower Twin lake	1,234
181	Rock lake	1,240
060	Onamakwash lake	1,214
835	Byrne lake	1,220
786	Burnt-rabbit lake	1,241
867	Bud lake	1,299
270	Tempest lake	1,242
348	Eagle lake	1,285
345	Adder lake	1,286
	Bald-headed lake	1,296
	Windy lake	1,318
	Red-head lake	1,338
	Cameo lake	1,350
450	Cedar lake	1,385
120	Kawaweogama lake	1,347
538	Barrington lake	1,344
500	Peggy lake	1,370
400	Kangaroo lake	1,349
450	Heathcote lake	1,341
600	Eight-mile lake	1,391
864	Beckington lake	1,391
600	Canoe lake	1,382
350	Miner lake	1,354
	Kimmewin lake	1,203
	Savant lake	1,308
850	Schist lake	1,238
950	Island lake	1,275
600	Houghton lake	1,288
450	Kashaweagama lake	1,277
330	Flint lake	1,315
530	Gault lake	1,302
510	Mystery lake	1,309
730	McEwen lake	1,337
400	Antler lake	1,355
850	Windfall lake	1,269

ONTARIO- SUNDRY ALTITUDES

Elevation
above mean
sea level

Thunder Bay District

Snake lake.....	1,280
Granite lake.....	1,243
Dagger lake.....	1,292
Ballast lake.....	1,270
Eskimo lake.....	1,328
Loon lake.....	1,330
Berry lake.....	1,270
Black Bear lake.....	1,224
Cache lake.....	1,212
Surprise lake.....	1,232
Tamarack lake.....	1,181
Bath lake.....	1,206
Natamasagami lake (White lake).....	1,073
O'Sullivan lake.....	1,012
Percy lake.....	815
Devilfish lake.....	1,033
Cliff lake.....	1,281
Winsome lake.....	1,344
Neston lake.....	1,362
Devizes lake.....	1,340
Fog lake.....	1,350
Tom lake.....	1,338
Virginian lake.....	1,350
Wilcox lake.....	1,316
Sesegaganaga lake.....	1,370

Victoria County

Argyle P.O., cross roads.....	893
Hartley P.O., cross roads.....	954
Young lake, high water, 748; low water.....	740
Upper and Lower Mud lakes, high water, 749; low water.....	741
Head lake, high water, 885; low water.....	880
Rush lake, low water.....	880
Duck lake, low water.....	896
Deer lake, low water.....	872
Raven lake, low water.....	847
Oak lake, low water.....	909
Beech lake, low water.....	910
Mud Turtle lake, low water.....	849
Four-mile lake, low water.....	885
Logan hill, 1½ miles southeast of Bolsover.....	960
Dalrymple P.O., corner.....	755
Dartmoor P.O., cross roads.....	806
Uphill P.O., cross roads.....	901
Carden P.O., cross roads half-mile N.....	911
Horncastle P.O., cross roads half-mile south.....	876
Bexley P.O., cross roads.....	876
Norland P.O., cross roads.....	877
Dongola P.O., corner half-mile west of.....	998
Head Lake P.O., cross roads near.....	896
Baddow, cross roads half-mile west of.....	972
Balsam Grove P.O., cross roads half-mile north.....	912
Moore hill, 1 mile north of Coboconk.....	1,030
Cemetery hill, Kirkfield.....	1,000

ONTARIO—SUNDRY ALTITUDES

Elevation
above mean
sea level

Waterloo County

Conestoga river, B.M. on rock under bridge, St. Jacobs	1,023.43
Conestoga river, water under St. Jacobs bridge (July 10, 1918)	1,18.3
Bridgeport, end of Lancaster street	94
Winterbourne, road opp. Presbyterian church	1,097
West Montrose, highway bridge crossing C.P. Ry. track E. of Grand river	1,148

Welland County

Netherby P.O.	597
Pelham Union, cor. cons. I and II and Pelham-Clinton town-line	593
Reservoir, at head of DeCew falls	557
North Pelham, cor. cons. V and VI and lots 9 and 10	674
Pelham Centre	706
Ridgeville, cor. Gainsboro road and lot-line 5 and 6	679
Fonthill, cor. Gainsboro road and Pelham and Thorold town-line	705
Montrose, corner	580

Wentworth County

Sinclairville, cross roads	613
Blackheath P.O.	651
Tyneside, corner	685
Binbrook, cross roads, 1-2 miles east of	698
Tapleystown	662
Winona P.O.	315
Fruitland, corner	317
Stoney Creek, corner	337
Carlisle, cross roads half-mile W. of	712
Ancaster, junction of Brantford and Dundas roads	716
Southcote, corner	797
Dundas mountain	825
Rock Chapel, nearly	725
Clappison, nearly	735
Mill Grove, nearly	875
Harper corner, nearly	840
Flamboro Centre, nearly	850
Carlisle P.O.	850
Carlisle, hill one mile N.E. of	950

York County

Udora P.O., cross roads	802
Cedardale station, cross roads quarter-mile S.W.	758
Virginia P.O., corner	735
Vachell P.O., cross roads	833
Baldwin P.O., corner	747
Belhaven P.O., first corner south of	781
Hammertown P.O., corner	887
Hackett Lake, cross roads half-mile north	1,027
King P.O., cross roads 1½ miles south	982
Laskay P.O., cross roads half-mile south	896
Holly Park, corner	931
Nashville P.O., Can. Pac. Ry., Sudbury branch, crossing half-mile north	722

ONTARIO—SUNDRY ALTITUDES

Elevation
above me-
sea level

York County

Coleraine P.O., cross roads $\frac{1}{2}$ mile south	682
Pine Grove, cross roads half-mile east	560
Lemonville P.O., cross roads half-mile north	1,059
Bethesda P.O., cross roads $1\frac{1}{2}$ miles north	1,061
White Rose P.O., cross roads	1,007
Pinnacle Siding, cross-roads	1,031
Eversley, Schomberg and Aurora Ry. crossing half-mile east	983
Philips lake	1,025
Almir P.O., cross roads $\frac{1}{2}$ mile west	790
Mongolia P.O., cross roads 1 mile northeast	817
Headford P.O., cross roads 1 mile southwest	753
Richmond Hill P.O., cross roads quarter-mile south	765
Concord P.O., corner	633
Fisherville, corner	625
Steele corner	635
Milliken P.O., Grand Trunk Ry. crossing, $\frac{1}{2}$ mile west	649
Armada P.O., corner	370
Cedar Grove P.O., cross roads $\frac{1}{2}$ mile southeast	529
Ellesmere P.O., corner	534
Woburn P.O., cross roads $\frac{1}{2}$ mile northwest	524
O'Sullivan Corner, cross roads $\frac{1}{2}$ mile southeast	568
Oriole, corner	468
Lansing P.O., corner	572
Pottageville, cross roads half-mile south	809
Lloydtown P.O., cross roads half-mile southwest	804

INTERNATIONAL BOUNDARY

465

Elevation
above mean
sea level

INTERNATIONAL BOUNDARY—49th PARALLEL*

Elevation
above mean
sea level

682	Lake of the Woods, water (July 16, 1913), 1,060.8; low water (Sept. 20, 1911) .	1,057.0
560	Branch of Roseau river, long. 95° 40' .	1,030
1,059	Canadian Northern Ry., main line, crossing	1,077
1,061	Highest point between lake of the Woods and Red river, long. 95° 40' .	1,061
1,007	Pine river, long. 95° 55' .	1,027
1,031	Roseau swamp, long. 96° 08' .	1,004
983	Roseau river, long. 96° 30' .	950
1,025	West Roseau astronomical station, long. 96° 47' .	995
790	Canadian Pacific Ry., Emerson branch, crossing	792.0
817	Red River Ast. Sta., (west bank), long. 97° 14' .	788
753	Canadian Pacific Ry., Greta branch, crossing	831
765	Michelle Ast. Sta., long. 97° 40' .	844
633	Great Northern Ry., Morden branch, crossing	951
625	East Pembina Mountain Ast. Sta., long. 98° 01'	1,030
635	Pembina mountain, highest point on line, long. 98° 10' .	1,695
649	West Pembina Mountain Ast. Sta., long. 98° 16' .	1,531
570	Long River Ast. Sta., long. 98° 55' .	1,552
529	Great Northern Ry., Brandon branch, crossing	1,889
534	East Turtle Mountain Ast. Sta., long. 99° 46' .	1,800
524	Turtle mountain, highest point on line, long. 100° 25' .	2,534
568	West Turtle Mountain Ast. Sta., long. 100° 31' .	2,092
468	First Souris River Ast. Sta. (west bank), long. 100° 58' .	1,421
572	South Antler creek, long. 100° 18' .	1,600
809	South Antler Ast. Sta., long. 100° 28'	1,645
804	Grand Trunk Pacific Ry., Regina and Boundary branch, crossing	1,841
	Ast. Sta. (U.S. No. 8), long. 102° 26'	1,985
	Canadian Pacific Ry., Portal branch, crossing	1,951.8
	Third Souris River Ast. Sta., long. 103° 11'	1,981
	Grand Coteau Ast. Sta., long. 103° 35'	1,900
	Mid Coteau Ast. Sta., long. 104° 06'	2,141
	Big Muddy Ast. Sta., long. 104° 40'	2,400
	Bully Spring Ast. Sta., long. 105° 12'	2,533
	Poplar River Ast. Sta., long. 105° 42'	2,560
	Missouri coteau, highest point on line, long. 106° 11' .	3,200
	West Poplar Ast. Sta., long. 106° 13'	2,868
	West Poplar river, long. 106° 21'	2,717
	Summit, long. 106° 30'	2,097
	Little Rocky Ast. Sta., long. 106° 47'	2,516
	Frenchman creek, long. 107° 17', water.	2,571
	Frenchman Creek Ast. Sta., long. 107° 24'	2,866
	Cottonwood Coulee Ast. Sta., long. 107° 46'	3,170
	Prairie Pool Ast. Sta., long. 108° 13'	2,942
	Goose Lake Ast. Sta., long. 108° 49'	3,030
	East Fork Ast. Sta., long. 109° 24'	2,770
	West Fork Ast. Sta., long. 109° 42'	2,494
	Milk river, east bank, long. 110° 30'	2,040
	Milk river, first crossing, long. 110° 33'	2,681
	Milk river, west bank, long. 110° 46'	2,832
	Milk River Ast. Sta., long. 110° 44'	2,806
	East Butte Ast. Sta., long. 111° 11'	3,000
	West Butte Ast. Sta., long. 111° 33'	4,180
	Canadian Pacific Ry., Coutts branch, crossing	3,466
	Red Creek Ast. Sta., long. 112° 00'	3,550
	Highest point between Red creek and South branch Milk river, long. 112° 23'	4,115

*Between lake of the Woods and long. 113° 53' W., elevations are barometric except crossings of railways and St. Mary and Milk rivers.

INTE. U. S. L. BOUNDARY—49th PARALLEL

Elevation
above mean
sea level

South Branch Milk River Ast. Sta., long. 112° 33'	3,428
North branch Milk river, long. 113° 00'	4,165
St. Mary river, long. 113° 17'	4,127
East Rocky Mountains Ast. Sta., long. 113° 27'	4,717
Waterton lake, long. 113° 53'	4,186
Cameron lake	5,445
Akamina Ast. Sta. (summit of Rocky mountains), long. 114° 03'	7,400
King Edward peak, lat. 49° 01'; long. 114° 16'	9,300
Monument 202, Flathead valley, long. 114° 28', U.S. bench mark	4,068
Great Northern Ry., Michel branch crossing	2,371
Gateway, Mont., Kootenay valley, boundary monument at Great Northern Ry.	2,355
North fork Yahk river	3,195
Moyie river, Kingsgate, B.C., long. 116° 12'	2,605
Canadian Pacific Ry., Kingsgate branch, crossing	2,665
Monument No. 207, Kootenay valley, U. S. bench mark	1,796
Great Northern Ry., Kuskonook branch, crossing	1,782
Boundary monument No. 203, Boundary creek, long. 116° 42'	3,450
Summit lake, head of Boundary creek, long. 116° 49'	4,307
Boundary monument No. 196, summit, long. 116° 59'	7,405
Monument No. 193, west of Salmon river, long. 117° 08'	3,368
Monument No. 190, summit, long. 117° 15'	5,219
Pend d'Oreille valley, boundary line	1,750
Great Northern Ry., Spokane and Nelson branch, crossing	1,353
Boundary monument at Waneta	1,356
Mount Roberts, west of Rossland	6,513
Patterson, Great Northern Ry., Rossland branch, crossing	2,171
Monument No. 170, summit, long. 118° 04'	4,867
Laurier, Great Northern Ry., Princeton branch, crossing	1,667
Aznuth post on boundary, Kettle river crossing, long. 118° 45'	1,893
Kettle River valley, U.S. bench mark, W. of Great Northern Ry. wye	1,757
Danville, Great Northern Ry., Princeton branch, crossing	1,737
Midway, Great Northern Ry., Princeton branch, crossing	1,886
Boundary monument No. 133, summit, long. 118° 58'	4,325
Boundary line at Myers creek at road, long. 119° 01', U.S. bench mark	2,624
Mount Gillespie, lat. 49° 02', long. 119° 12'	5,050
Monument No. 123, near Sidley, B.C., long. 119° 16'	3,484
Monument No. 121, long. 119° 20'	3,661
Monument No. 118, east bank of Osoyoos lake	1,050
B. M., west of monument No. 112, long. 119° 30'	1,450
Similkameen valley, U.S. bench mark on Great Northern Ry., 0.6 mile S. of boundary	1,197
Great Northern Ry., Princeton branch, crossing	1,194
Boundary line at Ashnola river, long. 120° 19'	4,825
Boundary line at Pasayten river, long. 120° 33', U.S. bench mark	3,853
Boundary line at Skagit river, long. 121° 05'	1,606
Monument No. 60, long. 121° 28'	6,956
Boundary line at Middle creek, long. 121° 31'	3,300
Boundary line at Silicia creek, long. 121° 36'	2,125
Boundary line at Tamihy creek, long. 121° 45'	2,610
Thurston's ranch, mouth of Silicia creek, Chilliwack river	852
McGuire's ranch, Chilliwack river	430
Vedder crossing, Chilliwack river, Great Northern Ry. bench mark	212
U.S. bench mark, Sumas, Wash.	48
Sumas, Great Northern Ry., Guichon branch, crossing	44.5
Monument No. 31, long. 122° 16'	202
Monument No. 20, long. 122° 29'	145
Great Northern Ry., Vancouver branch, crossing	22

MANITOBA

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RED RIVER

Elevation
above mean
sea level

Lake Winnipeg, ice (1876), 712; low water, 711; water (Sept. 12, 1911), 713.5; zero of gauge at Winnipeg lock, 710.5; average level (Sept. 1 to Oct. 13, 1912).....	714.6
At Selkirk, general prairie level, 737; extreme high water (1826), 734; (1852), 728; ice (1876).....	714
At Lower Fort Garry (Stone Fort), general prairie level, 734; extreme high water (1826), 748; (1852), 738; (1875), 736; ice, (1876).....	715
At St. Andrews church, general prairie level, 756; extreme high water, (1826), 755; (1852), 747; (1875), 738; ordinary spring floods, about 737; ice (1876).....	719
St. Andrews lock, below lock (Sept. 28, 1911).....	713
St. Andrews lock, above lock (Sept. 28, 1911).....	733
At Kildonan church, general prairie level, 757; extreme high water (1826), 764; (1852), 760; (1860), 754; (1875), 746; ice, (1876).....	727
Point Douglas, flood (1826), 765; (1852), 763; (1875), 746; ice (1876).....	728
National Transcontinental Ry. bridge, high water, 753; low water.....	734
Mouth of Assiniboine river, general prairie level, 760; extreme high water (1826), 765; (1852), 763; (1860), 761; (1875), 746; ice (1876), 728; water (May 19, 1914).....	736
Mouth of Rivière aux Marais, high water.....	782
At Emerson, extreme high water, 792; low water.....	753

ASSINIBOINE RIVER

At confluence with Red river (see also above), water (May 19, 1914).....	736
Winnipeg, city engineer's gauge, Main St., zero, 728.04; water (Sept. 29, 1911).....	733.29
Canadian Pacific Ry., La Rivière branch, bridge, low water.....	734
Canadian Northern Ry., Oak Point branch, bridge, low water.....	739
Mouth of Sturgeon brook, ordinary stage.....	748
Canadian Pacific Ry., Southwestern branch, bridge, high water, 768; low water.....	755
St. François Xavier church, top of bank, 787; water.....	768
In lot 230, Baie St. Paul, top of bank, 797; water.....	782
Centre of lot 142, Baie St. Paul, top of bank, 811; water, ordinary stage.....	799
Long lake, occupying former channel of Assiniboine, high water, 807; low water.....	802
Grand Trunk Pacific Ry. bridge near Gervais, high water, 834; low water.....	825
Canadian Northern Ry. bridge, high water (1904), 841; water (June 17, 1914).....	833
Near site of old Hudson's Bay Co. fort, two miles S.W. of Portage la Prairie, extreme high water (May 3-15, 1882), when river overflowed to Lake Manitoba.....	857
In sec. 36, tp. 8, R. XI, approximately.....	1,000
Mouth of Souris river.....	1,110
Canadian Pacific Ry. bridge, near Brandon.....	1,165
Canadian Northern Ry. bridge, near Shilo, high water, 1,193; water (July 16, 1904).....	1,184
Grand Trunk Pacific Ry. bridge, near Lazare, high water (May, 1904), 1,296; water.....	1,280
Canadian Pacific Ry. bridge, near Millwood, high water (1904), 1,338; water.....	1,317
Two miles below mouth of Shell river, high water, 1,363; low water.....	1,354
Canadian Northern Ry. bridge, near Shellmouth, water (May 15, 1908).....	1,362
Canadian Northern Ry. bridge, near Kamsack, bed.....	1,405
Three miles below Fort Pelly.....	1,475
Crossing of old location, Canadian Pacific Ry., high water, 1,678; ordinary water.....	1,677

QU'APPELLE RIVER

At confluence with Assiniboine river.....	1,280
Canadian Pacific Ry. bridge, near Tantallon, high water.....	1,372
Grand Trunk Pacific Ry. bridge, near fort Qu'Appelle, high water, 1,576; low water.....	1,569
Fishing lakes, with intervening descents of about a half-foot (maximum depth of these lakes, in ascending order, 66, 48, 57 and 54 feet, respectively), low water.....	1,568-1,570
Canadian Pacific Ry. bridge, near Craven, high water, 1,614; low water.....	1,608
Canadian Northern Ry., Regina and Prince Albert branch, bridge, water.....	1,615

QU'APPELLE RIVER

Elevation
above mean
sea level

Buffalo Pound lake (about 20 feet deep).....	1,653
Eyebrow lake (about 20 feet deep).....	1,715
Qu'Appelle lakes, at height of land (Nov. 3, 1913).....	1,742
Height-of-land between Aiktow brook and Qu'Appelle river.....	1,749
Last Mountain lake, tributary of the Qu'Appelle, high water, 1,614; low water...	1,608

PEMBINA RIVER

Confluence with Red river at Pembina, extreme high water, 788; extreme low water	748
Crossing International boundary, R. VI, about.....	1,100
Sec. 21, tp. 1, R. VIII, bed.....	1,187
Canadian Pacific Ry., La Rivière branch, bridge, near La Rivière, water.....	1,290
Swan lake, about.....	1,310
Pembina river, sec. 12, tp. 3, R. XIII, high water, 1,328; bed.....	1,309
Rock lake, high water, 1,330; ice.....	1,321
Pembina river, sec. 24, tp. 3, R. XV, high water, 1,341; low water.....	1,329
Lakes Lorne and Louise, expansions of Pembina river, water.....	1,332
Outlet of Pelican lake, sec. 32, tp. 3, R. XV, bed.....	1,337
Grass and Pelican lakes, nearly.....	1,340
Bone lake, in Lang valley.....	1,357
Divide between Souris and Pembina rivers in Lang valley, outlet of glacial lake Souris	1,364
Pembina river, sec. 36, tp. 3, R. XVI, water.....	1,379
Canadian Pacific Ry. bridge, near Killarney, high water; 1,612, water.....	1,603
Great Northern Ry., Brandon branch, bridge, bed.....	1,733

SOURIS RIVER

Confluence with the Assiniboine river.....	1,110
Canadian Pacific Ry. bridge, near Treesbank, water.....	1,113
Canadian Northern Ry. bridge, near Wawanesa, high water.....	1,148
"Elbow," sec. 4, tp. 6, R. XVIII (west end of Lang valley), about.....	1,265
Great Northern Ry. bridge, near Bunclody, low water.....	1,316
Canadian Pacific Ry. bridge, near Menteith, water.....	1,361
Canadian Northern Ry. bridge, near Hartney, water.....	1,376
Canadian Pacific Ry. bridge, near Lauder, bed.....	1,391
Canadian Pacific Ry. bridge, near Melita, high water (1882), 1,412; low water.....	1,395
Canadian Pacific Ry. bridge, near Dalny, bed.....	1,403
Grand Trunk Pacific Ry., Regina and Boundary branch, bridge, high water.....	1,701
Sec. 36, tp. 1, R. VI, high water, 1,717; low water.....	1,700
Canadian Pacific Ry., Pasqua branch, bridge at Roche Percée, water.....	1,729
Canadian Pacific Ry. bridge, near Weyburn, bed.....	1,847
Moose Mountain creek, at Canadian Pacific Ry. bridge, near Alameda, water....	1,720
Moose Mountain creek, at Canadian Pacific Ry. bridge, near Kisbey, water....	1,983

NELSON RIVER

'The effect of the tide extends to Gillam or Lower Seal island, which is about 20 miles from Hudson bay. Spring tides on the west coast of Hudson bay are quite uniformly 11 or 12 feet, being greater than on the east coast. They are highest at the mouth of the Nelson river, amounting there to about 15 feet. The average depth of Hudson bay is about 70 fathoms throughout, deepening to 100 and upwards, in approaching the outlet of Hudson strait, while, in the strait itself, the soundings along the centre vary from about 100 to upwards of 300 fathoms. The bottom appears to consist almost everywhere of boulder-clay and mud.'

At confluence with the Kisematchisk river, 36 miles above Nelson.....	72
Head of navigation, 46 miles above Seal islands, about.....	92

MANITOBA AND SASKATCHEWAN

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NELSON RIVER

Elevation
above mean
sea level

653	Foot of Lower Limestone rapids...	
715	Head of Lower Limestone rapids...	120
742	Foot of Upper Limestone rapids...	161
749	Head of Upper Limestone rapids...	164
608	Foot of Long Spruce rapids...	204
	Head of Long Spruce rapids...	220
	Foot of First Kettle rapids...	312
	At Hudson Bay Ry. survey line, over Middle Kettle rapids...	315
748	Head of Third Kettle rapids...	349
100	Foot of Gull rapids...	392
187	Head of Gull rapids...	410
290	Gull lake...	488
310	Foot of Overfall rapids...	488
309	Head of Overfall rapids...	515
321	Split lake, narrows...	540
329	Split lake, above narrows...	555
332	Foot of Grand rapids...	556
337	Head of Grand rapids...	560
340	Hudson Bay Ry. crossing, in middle of Manitou rapids, high water, 593; low water...	580
357	Sipiwek lake...	587
364	Head of Chain-of-rocks rapids...	603
379	Foot of Red Rock rapids...	604
603	Head of Red Rock rapids...	604
733	Foot of Bladder rapids...	616
	Head of Bladder rapids...	626
	Foot of Whitemud rapids...	637
	Head of Whitemud rapids...	638
	Foot of Ebb-and-flow rapids...	668
	Head of Ebb-and-flow rapids...	670
	Cross lake...	680
	Intersection with Principal meridian in tp...	683
	Lake Winnipeg, water (Sept. 12, 1911), 711; (1876), 712; low water, 711; 1912)...	709
	high water, 716; average level (Sept. 1...	714.6

Miles from
Lake Winnipeg

SASKATCHEWAN RIVER

0.0	Lake Winnipeg (see also above), average level (Sept. 1 to Oct. 13, 1912)...	714.6
6.0	Grand rapid, ascending 74.7 ft...	716-791
12.0	Red Rock rapid, ascending 12.2 ft...	801-813
14.5	Cross Lake rapid, ascending 4.0 ft...	814-818
14.5-18.0	Cross lake, water (1911), 817; (July 5, 1913)...	818
18.0	Demi-charge rapid, ascending 5.9 ft...	818-824
22.5	Flying Post rapid, ascending 3.7 ft...	829-833
22.5-58.0	Cedar lake, water (1912), 836; water (1913)...	834
132.0	Canadian Northern Ry. bridge at T. Gas, zero of Public Works Dept. gauge, 844.04; high water, 855; low water...	
169.0	Saskatchewan river, sec. 36, tp. 56, R. XXX, W.P.M.	843
	Reader lake, water...	849
181.0	Saskeram lake, water...	851
188.0	Saskatchewan river, sec. 25, tp. 56, R. I, W. 2 mer.	852
204.0	Sec. 34, tp. 56, R. II...	855
	Sec. 32, tp. 56, R. VI, W. 2 mer., old channel...	862
	Sec. 36, tp. 56, R. VIII, new channel...	886
254.0	The 'cut-off,' confluence of Sturgeon river...	891
269.3-269.5	Squaw rapid, ascending 2.5 ft...	894
271.8-274.8	Tobin rapid, ascending 20 ft...	919-922
		933-953

Miles from
Lake Winnipeg

SASKATCHEWAN RIVER

Elevation
above mean
sea level

326.0-329.0	Nipawin rapid, ascending 15.4 ft.	1,020-1,035
332.0-333.0	Cadotte rapid, ascending 4.8 ft.	1,053-1,058
337.0-338.0	Second rapid below Fort à la Corne, ascending 3.2 ft.	1,069-1,072
354.0-355.0	First rapid below Fort à la Corne, ascending 7.8 ft.	1,148-1,156
383.0	Confluence of North Saskatchewan and South Saskatchewan.	1,244

Miles from
Lake Winnipeg

NORTH SASKATCHEWAN RIVER

383.0	Confluence with South Saskatchewan river	1,244
383.5-383.8	Rapid No. 14, ascending 3.8 ft.	1,246-1,250
384.1-384.8	Rapid No. 13, ascending 4.8 ft.	1,252-1,257
385.9-386.8	Crooked rapid, ascending 6.8 ft.	1,265-1,272
387.9-388.1	Stony rapid, ascending 5.4 ft.	1,278-1,283
389.0-390.0	Horseshoe rapid, ascending 2.4 ft.	1,290-1,293
390.3-390.5	Rapid No. 9, ascending 4.1 ft.	1,295-1,299
390.8-391.1	Rapid No. 8, ascending 2.2 ft.	1,300-1,302
391.3-391.9	Steep Creek rapid, ascending 6.7 ft.	1,303-1,316
392.1-392.3	Rapid No. 6, ascending 1.7 ft.	1,311-1,313
393.0-393.1	Rapid No. 5, ascending 1 ft.	1,316-1,317
393.5-393.9	Demi-charge rapid, ascending 3.4 ft.	1,318-1,322
394.1-394.4	Squaw rapid, ascending 2.4 ft.	1,324-1,327
394.7-395.0	Bigstone rapid, ascending 2.7 ft.	1,327-1,330
395.1-395.2	Pearce rapid, ascending 1.6 ft.	1,331-1,333
396.5-397.0	Third small rapid, ascending 3.5 ft.	1,336-1,341
402.0-402.3	Second small rapid, ascending 2.8 ft.	1,352-1,355
403.3-403.5	First small rapid, ascending 2.7 ft.	1,356-1,359
421.3	Prince Albert, at Canadian Northern Ry. bridge, high water (July 14, 1912), 1,386; low water (Jan. 18, 1914)	1,374
	Prince Albert, zero of Public Works Dept. gauge	1,371.5
441.1	Old Lily Plain ferry, S.E. $\frac{1}{4}$ 5-49-I, W. 3	1,391
471.8	Carlton ferry	1,414
484.6	Laird ferry	1,423
493.3	One-quarter mile below Petrofka ferry	1,429
508.3	Near abandoned ferry road	1,441
521.1	Canadian Northern Ry. bridge, near Borden, freshet, 1,470; low water	1,453
538.8	N.E. $\frac{1}{4}$ 26-39-XI, W. 3 mer., 200 yards above Radisson ferry	1,468
558.0	S.W. $\frac{1}{4}$ 21-41-XIII, W. 3 mer., 100 yards below Maymount ferry	1,487
583.5	Mouth of Battle river	1,511
587.5	North Battleford pump house	1,517
593.5	Canadian Northern Ry. bridge, west of North Battleford	1,524
614.3	Bresaylor ferry, sec. 29, tp. 46, R. XIX, W. 3	1,546
643.3	Mouth of Englishman river	1,577
667.0	One mile above Lashburn ferry	1,601
691.0	Just above old Fort Pitt	1,626
718.5	Mouth of Vermilion river	1,650
726.6	Mouth of Frog creek	1,660
735.9-736.2	Second Moose rapid, ascending 2.6 ft.	1,670-1,672
739.5-739.8	First Moose rapid, ascending 1.9 ft.	1,674-1,676
746.5-746.8	Wolf Pond rapid, ascending 2.8 ft.	1,694-1,697
749.3-750.0	Dog Rump rapids, ascending 5.2 ft.	1,706-1,711
754.3	Hopkins ferry	1,715
779.1-779.5	Eye rapid, ascending 3.5 ft.	1,743-1,747
788.5	One-quarter mile below Brosseau ferry	1,755
799.6	One-half mile above Saddle creek	1,777
808.4-809.7	Crooked rapid, ascending 1.1 ft.	1,793-1,794
819.0	150 yards below Shandro ferry	1,813
836.4	Head of Victoria rapid	1,846

ALBERTA AND SASKATCHEWAN

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Miles from
Winnipeg

NORTH SASKATCHEWAN RIVER

Elevation
above mean
sea level

-1,035	836.9	50 yards below Pakan ferry.....	
-1,058	857.9	Head of Little Sucker rapid.....	1,848
-1,072	860.5	One-quarter mile above Jump-off rapid.....	1,897
-1,156	869.3	Mouth of Redwater river.....	1,900
1,244	878.8	Foot of Stony bar.....	1,925
	887.6	Canadian Northern Ry. bridge, flood, 1,996; ordinary high water, 1,977; water (June 24, 1905), 1,974; water (Sept. 3, 1914), 1,969; low water.....	1,944
1,244	894.5	Quarter-mile above Stony Bar rapid.....	1,965
-1,250	904.0	Grand Trunk Pacific Ry. bridge, high water, 2,029; low water.....	1,983
-1,287	911.6	Edmonton, traffic bridge, low water.....	1,998
-1,272	913.0	Edmonton, Canadian Pacific Ry. bridge, B.M. on top of N.E. cor of most easterly pedestal, 2,051; flood, 2,046; water (Aug. 18, 1913), 2,017; low water.....	2,009
-1,283		Canadian Pacific Ry., old location, crossing, long. 114° 01', extreme high water, 2,114; low water.....	2,013
-1,293		"Big" coal seam, long. 114° 31'.....	2,094
-1,299		Mouth of Brazeau river.....	2,274
-1,302		Alberta Central Ry., bridge, extreme high water, 3,140; ordinary high water, 3,136; low water.....	2,604
-1,310		At "Kootenay plains".....	3,131
-1,313		Mouth of Mistaya river.....	4,370
-1,317			4,500
-1,322			
-1,327			
-1,330			
-1,333			
-1,340			
-1,355			
-1,359			

BATTLE RIVER

374		Confluence with North Saskatchewan river.....	
371.5		Grand Trunk Pacific Ry. bridge, near Battleford, water.....	1,516
391		Fort Pitt trail crossing, near 4th meridian.....	1,526
414		Grand Trunk Pacific Ry. bridge, near Hawkins, high water, 1,938; low water.....	1,718
423		Canadian Pacific Ry. bridge, near Hardisty, water.....	1,911
429		Buffalo creek, one mile from Battle river.....	1,983
441		Canadian Pacific Ry. bridge, near Lorraine, water.....	1,990
453		'Elbow,' in tp. 39, R. XII.....	2,090
468		Canadian Northern Ry. bridge, at Battle, bed.....	2,150
487		Dried-meat lake, a lake-expansion.....	2,245
511		Grand Trunk Pacific Ry. bridge, near Duhamel, high water, 2,260; low water.....	2,255
517		Asker lake, in tp. 43, R. XXIII.....	2,251
521		Canadian Pacific Ry. bridge, near Ponoka, water.....	2,515
546		Mouth of Pigeon creek.....	2,626
577		Battle lake.....	2,767
601			2,795
626			
650			
660			

SOUTH SASKATCHEWAN RIVER

-1,622		Confluence with North Saskatchewan river.....	
-1,676		Canadian Northern Ry. bridge, near Fenton, high water (1902), 1,400; water (1904).....	1,244
-1,697		Grand Trunk Pacific Ry. bridge, near Gerrond, high water.....	1,376
-1,715		Canadian Northern Ry. bridge, near Clarkboro, high water, 1,543; low water.....	1,428
-1,747		Canadian Pacific Ry. bridge, near Saskatoon, high water, 1,556; water (Sept., 1906).....	1,516
1,758		Canadian Northern Ry. bridge, near Saskatoon, extreme high water, 1,567; ordinary high water, 1,560; extreme low water, 1,545; ordinary water.....	1,546
1,777		Grand Trunk Pacific Ry. bridge, extreme high water, 1,571; low water.....	1,553
1,794		Canadian Pacific Ry. bridge, near Outlook, high water, 1,625; water (Aug. 10, 1908).....	1,553
1,813		Sec. 9, tp. 25, R. V, W. 3 mer., high water, 1,661; water.....	1,614
1,846		Sec. 19, tp. 24, R. VI, W. 3 mer., high water, 1,667; low water.....	1,660
		Dam site on sec. 19, tp. 21, R. VII, W. 3 mer., high water, 1,701; water.....	1,662
		West boundary of sec. 18, tp. 20, R. X.....	1,697
			1,739

SOUTH SASKATCHEWAN RIVER

Elevation
above mean
sea level

Canadian Pacific Ry. bridge, near Empress, high water (July, 1902), 1,911; low water (Nov. 18, 1912), 1,895; water (July 15, 1912).....	1,901
Canadian Pacific Ry. bridge, at Medicine Hat, high water, 2,172; low water....	2,144
Confluence of Bow and Belly rivers.....	2,287

BOW RIVER

Confluence with Belly river to form South Saskatchewan river.....	2,287
Southern Alberta Land Company's canal crossing, sec. 33, tp. 12, R. XII, low water.....	2,309
Canadian Pacific Ry. bridge, near Terrace, high water, 2,330; water (April, 1912).....	2,321
Bassano, below dam, extreme high water, 2,538; low water.....	2,525
Bassano, above dam, extreme flood, 2,576; low water.....	2,563
Mouth of Highwood river, nearly.....	3,106
North boundary of sec. 34, tp. 21, R. XXVIII.....	3,125
West boundary of sec. 7, tp. 22, R. XXVIII.....	3,172
Mouth of Fish creek, nearly.....	3,250
North boundary of sec. 32, tp. 22, R. XXIX, W. 4 mer.....	3,286
Canadian Northern Ry. bridge, near Calgary, water.....	3,358
Canadian Pacific Ry. main line, bridge, near Calgary, freshet, 3,374; bed.....	3,359
Grand Trunk Pacific Ry. bridge, near Calgary, high water, 3,373; low water.....	3,363
Canadian Pacific Ry., Edmonton branch, bridge, near Calgary, water.....	3,394
Canadian Pacific Ry. bridge, near Keith, high water, 3,510; low water.....	3,498
West boundary of sec. 39, tp. 25, R. III, W. 5 mer.....	3,613
Canadian Pacific Ry. bridge, near Cochrane, high water, 3,704; low water.....	3,700
Two miles east of Radnor, water.....	3,741
Old ferry crossing at Radnor, water (Sept. 18, 1912).....	3,785
Mouth of Ghost river, water (Aug., 1912).....	3,809
Mouth of Chiniki creek, water (July 23, 1912).....	3,860
Morley bridge, water (June 29, 1912).....	3,901
Old Bow Fort, water (June 22, 1912).....	3,984
Mouth of Bow Fort creek, water (June 23, 1912).....	4,001
Calgary Power Company's plant at Horseshoe falls, tail-water, 4,052; head-water..	4,122
Calgary Power Company's plant at Kananaskis falls, tail-water, 4,126; head-water	4,198
Canadian Pacific Ry. bridge, near Kananaskis, high water, 4,201; water (July 14, 1911).....	4,198
Lac des Arcs, lake expansion, water.....	4,226
Canadian Pacific Ry. bridge, near Gap siding, water.....	4,241
Canadian Pacific Ry. bridge, near Laggan, low water.....	5,056
Summit of Kicking Horse pass.....	5,332
Hector lake.....	5,694
Bow lake.....	6,420
Summit of Bow pass.....	6,775

RED DEER RIVER

Confluence with South Saskatchewan, high water, 1,911; low water.....	1,895
Canadian Pacific Ry., Empress-Coronation survey line, crossing, high water.....	1,923
Near mouth of Berry creek, high water (1902), 2,094; water (Nov., 1912).....	2,082
Lorne trail crossing.....	2,191
Mouth of Rosebud river.....	2,220
Canadian Northern Ry. bridge, near Drumheller, high water, 2,232; water.....	2,223
Alberta Central Ry. survey line crossing, water.....	2,328
Grand Trunk Pacific Ry. bridge, near Bullocksville, high water, 2,511; low water...	2,496
Canadian Pacific Railway bridge, near Red Deer, high water, 2,798; low water.....	2,785
Alberta Central Ry. bridge, high water, 2,846; low water.....	2,839
Rocky Mountain House trail crossing, tp. 35, R. III.....	3,196
South boundary sec., 3, tp. 33, R. V, W. 5 mer., water.....	3,532

ALBERTA

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RED DEER RIVER

Elevation
mean above
sea level

Edge of foothills.....	
Stoney pack trail crossing.....	3,979
At crossing of trail from Cascade river.....	4,352
Small lake at source.....	5,500
	6,600

ROSEBUD RIVER

At confluence with Red Deer river.....	
Canadian Northern Ry. bridge, near Rosebud, high water.....	2,220
Canadian Northern Ry. bridge, near Redland, high water.....	2,565
Canadian Pacific Ry. bridge, near Irricana, water.....	2,579
West boundary of sec. 7, tp. 28, R. XXVI, W. of 4th mer., bank, 3,015; water.....	2,988
Canadian Northern Ry. survey line crossing, in tp. 28, R. XXVII, water.....	3,002
West boundary, sec. 18, tp. 29, R. XXVII, bank, 3,074; water.....	3,040
North boundary, sec. 31, tp. 29, R. XXVIII, water.....	3,065
East boundary, sec. 24, tp. 30, R. I, water.....	3,135
North boundary, sec. 35, tp. 31, R. II, water.....	3,185
Canadian Pacific Ry. bridge, near Didsbury, water.....	3,299
North boundary of sec. 32, tp. 32, R. II, water.....	3,302
Height-of-land between Rosebud and Red Deer rivers.....	3,344
	3,375

LITTLE RED DEER RIVER

Rocky Mountain House trail crossing.....	
South boundary, sec. 1, tp. 33, R. IV, W. of 5th mer., bank, 3,371; water.....	3,216
South boundary, sec. 4, tp. 33, R. IV, bank, 3,444; water.....	3,367
Edge of foothills, lat. 51° 30' N., long. 114° 41' W.....	3,437
	4,000

DOGPOUND BROOK

South boundary, sec. 4, tp. 33, R. III, bank, 3,317; flood, 3,295; ordinary water.....	3,292
South boundary, sec. 3, tp. 32, R. III, W. of 5th mer., bank, 3,362; water.....	3,350
South boundary, sec. 3, tp. 31, R. III, bank, 3,481; water.....	3,426
South boundary, sec. 4, tp. 30, R. III, bank, 3,557; water.....	3,552
West boundary, sec. 18, tp. 29, R. III, bank, 3,699; water.....	3,692
South boundary, sec. 4, tp. 29, R. IV, bank, 3,842; water.....	3,832

ELBOW RIVER

Confluence with Bow river.....	
Grand Trunk Pacific Ry. bridge, at Calgary, high water, 3,408; water.....	3,394
Canadian Pacific Railway bridge, at Calgary, high water, 3,413; low water.....	3,400
Canadian Northern Ry. bridge, at Calgary, bed.....	3,401
West boundary, sec. 30, tp. 33, R. I, W. of 5th mer., water.....	3,420
Southeast corner of sec. 8, tp. 24, R. II, flood, 3,609; high water, 3,606; low water.....	3,512
West boundary, sec. 18, tp. 24, R. III.....	3,604
West boundary, sec. 2, tp. 23, R. V.....	3,862
Head of proposed irrigation canal, northwest corner of sec. 29, tp. 22, R. V.....	4,302
West boundary, sec. 19, tp. 22, R. V.....	4,417
Mouth of Cañon branch.....	4,538
One mile below mouth of Fisher branch.....	4,725
Fisher branch, at forks, four miles from mouth.....	5,138
Summit of pass, Elbow river to North branch Sheep river.....	5,465
	6,567

FISH CREEK

Elevation
above mean
sea level

Confluence with Bow river, nearly.....	3,250
Canadian Northern Ry., survey line crossing, high water, 3,289; water (Mar. 17, 1911).....	3,286
At crossing of line between tps. 22 and 23, R. I, west of 5th mer., water.....	3,339
At highway bridge near Midnapore, flood, 3,397; high water, 3,394; low water.....	3,392
Canadian Pacific Ry. bridge, near Midnapore, high water, 3,402; bed.....	3,391
West boundary, sec. 6, tp. 23, R. II.....	3,512
Confluence of North and South branches, flood, 3,793; high water, 3,791; low water.....	3,790
North branch, W. bdy., sec. 30, tp. 22, R. III, bed.....	4,252
South branch, W. bdy., sec. 3, tp. 22, R. III, flood, 3,896; high water, 3,894; low water.....	3,892
Same, at northeast corner of sec. 11, tp. 22, R. IV.....	4,112
Same, at lower end of irrigation reservoir site, near S. boundary, sec. 14, tp. 22, R. V.....	4,641

SHEEP RIVER

Confluence with Highwood river, nearly.....	3,230
West boundary, sec. 19, tp. 20, R. XXVIII.....	3,325
Canadian Northern Ry. survey line crossing, high water, 3,342; water (June 28, 1911).....	3,338
Canadian Pacific Ry. bridge, high water, 3,419; low water.....	3,413
Highway bridge near Dewdney, flood, 3,450; high water, 3,448; low water.....	3,446
West boundary, sec. 30, tp. 20, R. I, west of 5th mer.....	3,636
North boundary, sec. 33, tp. 20, R. II.....	3,738
West boundary, sec. 1, tp. 21, R. III, water above dam.....	3,951
North branch, head of irrigation ditch, sec. 5, tp. 21, R. IV.....	4,358
Summit between North branch and Elbow river.....	6,567
South branch, irrigation reservoir site, sec. 29, tp. 19, R. V.....	4,570

HIGHWOOD RIVER

Junction with Bow river, nearly.....	3,106
South boundary, sec. 5, tp. 21, R. XXVIII, water.....	3,215
Mouth of Sheep river, nearly.....	3,230
Canadian Pacific Ry. bridge, near Aldersyde, low water.....	3,366
Canadian Northern Ry., Calgary Southerly, survey line crossing, near High River, high water (June, 1912), 3,385; water (July 3, 1911).....	3,379
Canadian Pacific Ry. bridge at High River, high water, 3,395; low water.....	3,385
West boundary, sec. 6, tp. 18, R. I.....	3,718
Exit from mountains.....	4,780
Forks near Mist mountain.....	5,736
Summit of pass, Mist creek to Elk river.....	7,217
Summit of pass, Storm creek to Sheep river.....	7,632
South branch at west boundary, sec. 31, tp. 17, R. I.....	3,750
Stimson brook at south boundary, sec. 4, tp. 17, R. II.....	3,996
Tongue-flag creek, one and half miles from mouth.....	3,391
Same, at west boundary, sec. 18, tp. 19, R. I, west of 5th mer.....	3,822

JUMPINGPOUND BROOK

Forks in sec. 8, tp. 24, R. VI.....	4,578
North branch, at northeast corner of sec. 17, tp. 24, R. VII, W. of 5th mer.....	5,098
South branch, at north boundary of sec. 2, tp. 24, R. VII, W. of 5th mer.....	4,958

ALBERTA

475

LITTLE BOW RIVER

Elevation
above mean
sea level

Confluence with Belly river, approximately.....	2,578
Canadian Pacific Ry. bridge, near Carmangay, high water, 2,939; low water.....	2,933
West boundary, sec. 7, tp. 15, R. XXV, W. of 4th mer.....	3,108
North boundary, sec. 31, tp. 16, R. XXVI.....	3,196
West boundary, sec. 31, tp. 17, R. XXVII.....	3,254
West boundary, sec. 30, tp. 18, R. XXVIII.....	3,357
Canadian Northern Ry., Calgary Southerly, survey line crossing, ice (Mar. 19, 1912)	3,388

MOSQUITO CREEK

West boundary, sec. 7, tp. 15, R. XXV, half-mile from mouth.....	3,122
Canadian Northern Ry. survey line, S.E. $\frac{1}{4}$ 9-16-XXVI, high water, 3,200; water.....	3,204
West boundary, sec. 7, tp. 16, R. XXVII.....	3,297
Canadian Pacific Ry. bridge, high water, 3,344; low water.....	3,338
North boundary, sec. 35, tp. 16, R. XXIX.....	3,377
North boundary, sec. 31, tp. 16, R. XXIX.....	3,526
Nanton brook, at Canadian Pacific Ry. bridge, high water, 3,340; low water.....	3,334

WILLOW CREEK

West boundary, sec. 30, tp. 9, R. XXV, W. 4, three miles from mouth.....	3,048
Canadian Northern Ry. survey line crossing, water.....	3,055
Canadian Pacific Ry. bridge, high water, 3,157; low water.....	3,144
North boundary, sec. 36, tp. 12, R. XXVIII.....	3,292
Mounted Police post, sec. 14, tp. 13, R. XXVIII.....	3,366

OLDMAN RIVER

Confluence with Belly river, nearly.....	2,852
Canadian Pacific Ry. bridge, near Pearce, low water.....	2,944
West boundary, sec. 18, tp. 9, R. XXV, near Macleod.....	3,056
Canadian Northern Ry. survey line crossing, water.....	3,069
Canadian Pacific Ry. bridge, near Macleod, high water, 3,110; low water.....	3,096
S.E. cor., sec. 2, tp. 9, R. XXVII, W. 4 mer.....	3,166
2-5 miles south of boundary, Peigan Indian reserve.....	3,221
Mouth of Beaver creek.....	3,291
East boundary, sec. 13, tp. 7, R. XXIX.....	3,381
West boundary, sec. 27, tp. 7, R. XXX.....	3,534
Exit from mountains.....	4,457
Mouth of Dutch creek.....	4,609
2 $\frac{1}{2}$ miles above confluence with Livingstone river.....	4,966
Above fall.....	5,512
Source, about two and half miles from base of main range.....	6,698

CROWSNEST RIVER

Canadian Pacific Ry. bridge, near Lundbreck, water.....	3,806
Canadian Pacific Ry. bridge, near Crowsnest, water.....	4,124
Canadian Pacific Ry., second crossing, water.....	4,182
Canadian Pacific Ry., third crossing, high water, 4,270; low water.....	4,267
Crowsnest lake, water.....	4,427
Island lake, high water, 4,445; low water.....	4,438
Summit of Crowsnest pass on railway.....	4,459
Summit of Crowsnest pass on trail.....	4,845
South Fork river, E. bdy., sec. 25, tp. 7, R. I, W. 5 mer.....	3,540

PINCHER CREEK

Elevation
above mean
sea level

East boundary, sec. 12, tp. 7, R. XXIX	3,302
Canadian Pacific Ry. bridge, near Brocket, high water, 3,414; low water ..	3,394
North boundary, sec. 31, tp. 6, R. XXIX, W. 4 mer.	3,563
East boundary, sec. 13, tp. 6, R. I, W. 5 mer.	3,875

BELLY RIVER*

Confluence with Bow river	2,212
South boundary, sec. 6, tp. 10, R. XXI, W. 4 mer.	2,658
Canadian Pacific Ry. bridge, at Lethbridge, high water, 2,708; low water ..	2,689
Mouth of St. Mary river, nearly	2,729
West boundary, sec. 30, tp. 8, R. XXII	2,777
Mouth of Oldman river, nearly	2,852
South boundary of sec. 4, tp. 9, R. XXIV	2,976
Mouth of Waterton river, nearly	3,147
East boundary of sec. 25, tp. 5, R. XXVI	3,333
South boundary of sec. 1, tp. 5, R. XXVII	3,524
South boundary, sec. 1, tp. 3, R. XXVIII	4,034
Cable station, West's ranch, sec. 5, tp. 2, R. XXVIII	4,390
International boundary	4,728

ST. MARY RIVER

Confluence with Belly river, nearly	2,729
Old Canadian Pacific Ry. bridge (disused), water	2,744
West boundary, sec. 30, tp. 6, R. XXII, W. 4 mer.	3,003
East boundary, sec. 12, tp. 5, R. XXIV, W. 4 mer.	3,435
Canadian Pacific Ry. bridge, near Cardston, water	3,621
North boundary, sec. 31, tp. 2, R. XXIV, W. 4 mer.	3,714
South boundary, sec. 36, tp. 1, R. XXV, W. 4 mer.	3,887
South boundary, sec. 6, tp. 1, R. XXV, W. 4 mer.	4,137
Lee creek—	
North boundary, sec. 31, tp. 2, R. XXV, W. 4 mer.	3,792
East boundary, sec. 3, tp. 2, R. XXVII, W. 4 mer.	4,297

WATERTON RIVER

Confluence with Belly river, nearly	3,147
West boundary of sec. 18, tp. 6, R. XXV, W. 4 mer.	3,257
West boundary of sec. 30, tp. 3, R. XXVIII	4,048
East boundary of sec. 12, tp. 3, R. XXIX	4,104
S. bdy., sec. 1, tp. 3, R. XXIX	4,125
Small lake, secs. 5 and 6, tp. 2, R. XXIX	4,159
Sec. 16, tp. 1, R. XXIX, W. 4 mer.	4,191
Waterton lake	4,193

POTHOLE BROOK

Canadian Pacific Ry. bridge, near Magrath	3,137
North boundary, sec. 34, tp. 4, R. XXII, W. of 4 mer.	3,304
Canadian Pacific Ry. bridge, near Bradshaw	3,450
Canadian Pacific Ry. bridge, near Spring Coulee	3,516
North boundary, sec. 34, tp. 3, R. XXII	3,649
South boundary, sec. 6, tp. 3, R. XXII	4,283

* It is proposed to apply the name "Oldman" to the portion of the Belly between the confluence with the Bow and the confluence with present Oldman river about 10 miles N.W. of Lethbridge.

ALBERTA

77

MILK RIVER

Elevation
above mean
sea level

International boundary, long. 110° 25'.....	2,600
South boundary, sec. 1, tp. 1, R. V., W. 4 mer.....	2,681
East boundary, sec. 13, tp. 1, R. VI.....	2,720
North boundary, sec. 33, tp. 1, R. VI.....	2,750
East boundary, sec. 13, tp. 2, R. VII.....	2,770
East boundary, sec. 13, tp. 2, R. VIII.....	2,805
East boundary, sec. 24, tp. 2, R. IX.....	2,840
East boundary, sec. 25, tp. 2, R. X.....	2,866
East boundary, sec. 24, tp. 2, R. XI.....	2,895
East boundary, sec. 13, tp. 2, R. XII.....	2,925
East boundary, sec. 12, tp. 2, R. XIV.....	3,014
East boundary, sec. 1, tp. 2, R. XV.....	3,168
East boundary, sec. 12, tp. 2, R. XVI.....	3,356
Canadian Pacific Ry. bridge, near Milk River station, water (Aug. 27, 1914).....	3,404
East boundary, sec. 24, tp. 2, R. XVII.....	3,430
Northeast cor. sec. 24, tp. 2, R. XVIII.....	3,492
"At Forks," sec. 20, tp. 2, R. XVIII.....	3,539
East boundary, sec. 24, tp. 2, R. XIX.....	3,554
East boundary, sec. 12, tp. 2, R. XX.....	3,658
East boundary, sec. 13, tp. 2, R. XXI.....	3,807
East boundary, sec. 36, tp. 1, R. XXII.....	3,953
North boundary, sec. 32, tp. 1, R. XXII.....	4,014
Northeast cor., sec. 24, tp. 1, R. XXIII.....	4,069
South boundary, sec. 3, tp. 1, R. XXIII.....	4,155
International boundary, sec. 3, tp. 1, R. XXIII, W. 4 mer.....	4,165

ATHABASKA RIVER

Lake Athabaska, high water, 703; water.....	695
Intersection with 26th base-line (between tps. 100 and 101).....	738
Intersection with 25th base-line (between tps. 96 and 97).....	755
Intersection with 24th base-line (between tps. 92 and 93).....	772
North boundary, sec. 34, tp. 88, R. X, W. 4 mer., near Fort McMurray.....	817
North boundary, sec. 34, tp. 84, R. XVII, W. 4 mer., head of Grand rapids.....	1,227
Athabaska Landing.....	1,502
East boundary, sec. 25, tp. 71, R. I, W. 5 mer.....	1,550
Edmonton, Dunvegan and British Columbia Ry. bridge, high water, 1,810; water.....	1,798
Lesser Slave lake, high water.....	1,801
Old fort Assiniboine, N. bdy., tp. 61, R. VI, W. 5 mer.....	1,899
Mouth of McLeod river, high water, 2,269; ice (Mar. 18, 1911).....	2,000
Canadian Northern Ry., Peace River branch, 3.3 miles W. of MacLeod River bridge.....	2,262
Canadian Northern Ry., Peace River branch, bridge, high water, 2,476; water (Mar. 2, 1911).....	2,284
Ten miles below mouth of Baptiste river, tp. 59, R. XIX, W. 5 mer.....	2,466
Canadian Northern Ry. bridge, near Heda, high water, 3,174; ordinary water, 3,168; water (Jan. 29, 1912).....	2,700
Brûlé lake, high water, 3,232; water.....	3,166
1.8 miles east of Bedson station, high water, 3,245; water.....	3,229
Jasper lake, high water, 3,287; low water.....	3,239
Grand Trunk Pacific Ry. bridge, high water (July, 1907), 3,311; water.....	3,284
Mouth of Whirlpool river.....	3,309
	3,630

PEACE RIVER

Elevation
above mean
sea level

Confluence with Slave river.....	685
North boundary, sec. 32, tp. 108, R. IV, W. 5 mer.....	796
Intersection with 27th base-line (between tps. 104 and 105).....	860
Intersection with 26th base-line (between tps. 100 and 101).....	888
Intersection with 25th base-line (between tps. 96 and 97).....	921
Intersection with 24th base-line (between tps. 92 and 93).....	937
Mouth of Cadotte river, sec. 23, tp. 89, R. XXI, W. 5 mer.....	980
North boundary, sec. 33, tp. 84, R. XXI, W. 5 mer.....	1,012
Peace River crossing, Central Canada Ry. bridge, high water, 1,042; water (Jan. 23, 1914).....	1,027
Dunvegan, tp. 80, R. IV, W. 6 mer.....	1,305
*Fort St. John, sec. 19, tp. 83, R. XVIII.....	1,462
*Mouth of Maurice river, near Hudson's Hope, sec. 18, tp. 81, R. XXV.....	1,513
*Cust house, west end of Rocky Mountain portage, long. 122°15'.....	1,792
*Confluence of Finlay and Parsnip rivers.....	2,000

SMOKY RIVER

Confluence with Peace river, high water.....	1,042
Edmonton, Dunvegan and B.C. Ry. bridge, high water, 1,248; water, (Jan. 31, 1914).....	1,232
Canadian Northern Ry. bridge, high water, 1,591; water (Sept. 25, 1912).....	1,579
Mouth of Wapiti river, high water.....	1,591
Site of Jarvis' cache, lat. 54° 23', long. 118° 38'.....	3,100

*In British Columbia

BASE AND MERIDIAN LINES—SURVEYOR GENERAL'S BRANCH

Elevation
above mean
sea level

Principal Meridian

N.E. cor. sec. 36, tp. 28, R.I, W.P.M., ground	746
N.E. cor. sec. 36, tp. 29, R.I, W.P.M., ground	752
N.E. cor. sec. 36, tp. 30, R.I, W.P.M., ground	736
E. bdy. sec. 12, tp. 31, R.I, W.P.M., lake St. George	720
N.E. cor. sec. 36, tp. 31, R.I, W.P.M., ground	730
E. bdy. sec. 25, tp. 32, R.I, W.P.M., lake St. Patrick	723
N.E. cor. sec. 36, tp. 33, R.I, W.P.M., ground	741
E. bdy. sec. 25, tp. 34, R.I, W.P.M., lake St. Michael	757
N.E. cor. sec. 36, tp. 34, R.I, W.P.M., ground	751
E. bdy. sec. 24, tp. 35, R.I, W.P.M., lake Winnipeg, water (Sept. 12, 1911)	716
E. bdy. sec. 1, tp. 50, R.I, W.P.M., spruce stump	738
N.E. cor. sec. 36, tp. 50, R.I, W.P.M., ground	730
E. bdy. sec. 13, tp. 51, R.I, W.P.M., water, Bélanger river	713
N.E. cor. sec. 36, tp. 51, R.I, W.P.M., ground	739
E. bdy. sec. 36, tp. 52, R.I, W.P.M., ground	761
E. bdy. sec. 36, tp. 53, R.I, W.P.M., tamarack stump	746
E. bdy. sec. 36, tp. 54, R.I, W.P.M., lake, water	750
E. bdy. sec. 36, tp. 55, R.I, W.P.M., McLaughlin river, water	741
E. bdy. sec. 1, tp. 56, R.I, W.P.M., McLaughlin river, water	737
N.E. cor. sec. 36, tp. 56, R.I, W.P.M., lake, water	760
E. bdy. sec. 36, tp. 57, R.I, W.P.M., arrow on rock	777
E. bdy. sec. 36, tp. 58, R.I, W.P.M., arrow on rock	769
E. bdy. sec. 36, tp. 59, R.I, W.P.M., arrow on rock	752
E. bdy. sec. 36, tp. 60, R.I, W.P.M., spruce stump	795
N.E. cor. sec. 36, tp. 71, R.I	671
Mink lake	602
S.E. cor. sec. 36, tp. 72, R.I	636
N.E. cor. sec. 36, tp. 73, R.I	688
Hudson Bay Ry. crossing	684
Paynter lake	649
N.E. cor. sec. 36, tp. 75, R.I	637
N.E. cor. sec. 36, tp. 76, R.I	644
E. bdy. sec. 12, tp. 77, R.I, Grass river	598
N.E. cor. sec. 36, tp. 78, R.I	632
N.E. cor. sec. 36, tp. 79, R.I	681
E. bdy. sec. 12, tp. 80, R.I Burntwood river	605
Loon lake	630
N.E. cor. sec. 36, tp. 80, R.I	691

8th Base, East of Principal Meridian

N.W. cor. sec. 30, tp. 28, R.I, E.P.M., ground	746
N.E. cor. sec. 36, tp. 28, R.I, E.P.M., ground	728
N.E. cor. sec. 36, tp. 28, R. III, E.P.M., ground	746
N.E. cor. sec. 36, tp. 28 R. XV, E.P.M., ground	738
N. bdy. sec. 33, tp. 28, R.V, E.P.M., lake Winnipeg	717

9th Base, West of Principal Meridian

N.E. cor. sec. 36, tp. 32, R.II, W.P.M., ground	774
N.E. cor. sec. 35, tp. 32, R. III, W.P.M., ground	730
N. bdy. sec. 35, tp. 32, R. III, W.P.M., Mantagao river	716
N.E. cor. sec. 36, tp. 32, R. IV, W.P.M., ground	790
N.E. cor. sec. 36, tp. 32, R. V, W.P.M., ground	817
N.E. cor. sec. 36, tp. 32, R. VI, W.P.M., ground	808
N. bdy. sec. 36, tp. 32, R. VI, W.P.M., lake St. Martin	801

BASE AND MERIDIAN LINES—SURVEYOR GENERAL'S BRANCH

Elevation
above mean
sea level

10th Base, West of Principal Meridian

N. bdy. sec. 32, tp. 36, R. V, W.P.M., lake Winnipeg (Oct. 1912).....	715
N.E. cor. sec. 36, tp. 36, R. VI, W.P.M., ground.....	745
N. E. cor. sec. 36, tp. 36, R. VII, W.P.M., ground.....	779
N. bdy. sec. 31, tp. 36, R. VII, W.P.M., Warpath river.....	772
N.E. cor. sec. 36, tp. 36, R. VIII, W.P.M., ground.....	781
N.E. cor. sec. 36, tp. 36, R. IX, W.P.M., ground.....	816
N.E. cor. sec. 36, tp. 36, R. X, W.P.M., ground.....	833
N.E. cor. sec. 36, tp. 36, R. XI, W.P.M., ground.....	868
N. E. cor. sec. 36, tp. 36, R. XII, W.P.M., ground.....	897
N.E. cor. sec. 36, tp. 36, R. XIII, W.P.M., ground.....	916
N.E. cor. sec. 36, tp. 36, R. XIV, W.P.M., ground.....	899
N. bdy. sec. 31, tp. 36, R. XIV, W.P.M., small lake.....	845
N.E. cor. sec. 36, tp. 36, R. XV, W.P.M., ground.....	853
N. bdy. sec. 35, tp. 36, R. XV, W.P.M., Waterhen lake.....	830

11th Base, West of Principal Meridian

N.E. cor. sec. 36, tp. 40, R. XVI, W.P.M., ground.....	847
N. bdy. sec. 35, tp. 40, R. XVI, W.P.M., small lake.....	844
N. bdy. sec. 32, tp. 40, R. XVII, W.P.M., summit.....	885
N.E. cor. sec. 36, tp. 40, R. XVIII, W.P.M., ground.....	853
N. bdy. sec. 32, tp. 40, R. XVIII, W.P.M., lake Winnipegosis, (Feb., 1913).....	834
N.E. cor. sec. 36, tp. 40, R. XXIX, W.P.M., ground.....	862
N. E. cor. sec. 36, tp. 40, R. XX, W.P.M., ground.....	873
N. bdy. sec. 34, tp. 40, R. XXI, W.P.M., Pelican lake.....	838
N. bdy. sec. 33, tp. 40, R. XXI, W.P.M., ground.....	845
N. bdy. sec. 33, tp. 40, R. XXI, W.P.M., creek.....	838
N.E. cor. sec. 36, tp. 40, R. XXII, W.P.M., ground.....	903
N. bdy. sec. 31, tp. 40, R. XXII, W.P.M., ground.....	877
N. bdy. sec. 34, tp. 40, R. XXIV, W.P.M., Swan lake.....	849
N. bdy. sec. 34, tp. 40, R. XXIV, W.P.M., Woody river.....	849
N.E. cor. sec. 36, tp. 40, R. XXV, W.P.M., ground.....	869

12th Base, West of Principal Meridian

N.E. cor. sec. 33, tp. 44, R. XVI, W.P.M., ground.....	838
N. bdy. sec. 33, tp. 44, R. XVIII, W.P.M., summit.....	859
N.E. cor. sec. 36, tp. 44, R. XX, W.P.M., ground.....	845
N.E. cor. sec. 35, tp. 44, R. XX, W.P.M., small lake.....	844
N.E. cor. sec. 34, tp. 44, R. XXI, W.P.M., ground.....	838
N.E. cor. sec. 36, tp. 44, R. XXII, W.P.M., ground.....	876
N.E. cor. sec. 32, tp. 44, R. XXII, W.P.M., ground.....	863
N.E. cor. sec. 35, tp. 44, R. XXIII, W.P.M., ground.....	862

13th Base, West of Principal Meridian

N.E. cor. sec. 36, tp. 48, R. XIV.....	832
N.E. cor. sec. 36, tp. 48, R. XV, Cross lake.....	815
N. bdy. sec. 33, tp. 48, R. XV, Saskatchewan river.....	823
Cedar lake.....	830
N.E. cor. sec. 36, tp. 48, R. XXI.....	856
N.E. cor. sec. 36, tp. 48, R. XXII.....	916
N.E. cor. sec. 36, tp. 48, R. XXIII.....	845
N.E. cor. sec. 36, tp. 48, R. XXIV.....	865
N.E. cor. sec. 36, tp. 48, R. XXV.....	884

BASE AND MERIDIAN LINES—SURVEYOR GENERAL'S BRANCH

Elevation
above mean
sea level

13th Base, West of Principal Meridian

N.E. cor. sec. 36, tp. 48, R. XXVI.....	874
N. bdy. sec. 31, tp. 48, R. XXVI, Overflowing river	862
N.E. cor. tp. 48, R. XXVII.....	871
N.E. cor. tp. 48, R. XXVIII.....	879
N.E. cor. tp. 48, R. XXIX.....	946
N. bdy. sec. 31, tp. 48, R. XXIX, Overflowing river	992
N.E. cor. tp. 48, R. XXX.....	996
N.E. cor. tp. 48, R. XXXI.....	1,016
N.E. cor. tp. 48, R. XXXII.....	1,049

14th Base, West of Principal Meridian

N.E. cor. tp. 52, R. XII.....	734
N.E. cor. tp. 52, R. XIII.....	882
N.E. cor. tp. 52, R. XIV.....	925
N.E. cor. tp. 52, R. XV.....	929
N.E. cor. tp. 52, R. XVI, lake.....	890
N.E. cor. tp. 52, R. XVII, lake.....	862
Moose river.....	833
N.E. cor. tp. 52, R. XXI, marsh.....	834
N.E. cor. tp. 52, R. XXII, marsh.....	835
N.E. cor. tp. 52, R. XXIII, lake.....	840
N. bdy. sec. 35, tp. 52, R. XXIII, Saskatchewan river	835
N.E. cor. tp. 52, R. XXIV.....	841
N.E. cor. tp. 52, R. XXV.....	894
N.E. cor. tp. 52, R. XXVI.....	953
N.E. cor. tp. 52, R. XXVII.....	1,001
N. bdy. sec. 35, tp. 52, R. XXVIII, summit.....	1,044
N.E. cor. tp. 52, R. XXVIII.....	954
Canadian Northern Ry., Hudson Bay branch, crossing	922
N.E. cor. tp. 52, R. XXIX.....	897
N. bdy. sec. 35, tp. 52, R. XXX, Pasquia river, old channel	869
N. bdy. sec. 31, tp. 52, R. XXX, Waskwei river.....	859
N.E. cor. tp. 52, R. XXXI.....	859
N. bdy. sec. 31, tp. 52, R. XXXI, Waskwei river	866
	863

15th Base, West of Principal Meridian

N. bdy. sec. 36, tp. 56, R. I, W.P.M., ground..	760
N.E. cor. sec. 36, tp. 56, R. II, W.P.M., ground	753
N.E. cor. sec. 36, tp. 56, R. III, W.P.M., ground	733
N. bdy. sec. 34, tp. 56, R. III, W.P.M., Gunisao river	715
N.E. cor. sec. 36, tp. 56, R. IV, W.P.M., ground.....	723
N. bdy. sec. 36, tp. 56, R. IV, W.P.M., Playgreen lake	715
Voose lake.....	838
N. bdy. sec. 33, tp. 56, R. XXII, W.P.M., river flowing N.E.	840
N.E. cor. sec. 36, tp. 56, R. XXIII, W.P.M., ground	845
N.E. cor. sec. 36, tp. 56, R. XXIV, W.P.M., ground	875
N.E. cor. sec. 36, tp. 56, R. XXV, W.P.M., ground	851
N.E. cor. sec. 36, tp. 56, R. XXVI, W.P.M., ground	854
Reader lake.....	851
N. bdy. sec. 33, tp. 56, R. XXVII, W.P.M., Saskatchewan river	849
Saskeram lake.....	852
N.E. cor. sec. 36, tp. 56, R. XXX, W.P.M., ground	870

BASE AND MERIDIAN LINES—SURVEYOR GENERAL'S BRANCH

Elevation
above mean
sea level

15th Base, West of Principal Meridian

N. bdy. sec. 36, tp. 56, R. XXX, W.P.M., Saskatchewan river.....	849
N.E. cor. sec. 35, tp. 56, R. XXXI, W.P.M., ground.....	877
N.W. cor. sec. 33, tp. 56, R. XXXI, W.P.M., ground.....	874

16th Base, West of Principal Meridian

N.E. cor. sec. 36, tp. 60, R. I, W.P.M., ground.....	782
N. bdy. sec. 31, tp. 60, R. I, W.P.M., Nelson river.....	709
N.E. cor. sec. 36, tp. 60, R. III, W.P.M., Orion lake.....	754
N. bdy. sec. 36, tp. 60, R. III, W.P.M., ground.....	758
N.E. cor. sec. 36, tp. 60, R. VI, W.P.M., ground.....	728
Kiskittogisu lake.....	711
N. bdy. sec. 35, tp. 60, R. VII, W.P.M., ground.....	726
N.E. cor. sec. 36, tp. 60, R. VIII, W.P.M., ground.....	710
Kiskitto lake.....	698
N.E. cor. sec. 36, tp. 60, R. X, W.P.M., ground.....	731
N.E. cor. sec. 36, tp. 60, R. XI, W.P.M., ground.....	746
N. bdy. sec. 32, tp. 60, R. XI, W.P.M., Minago river.....	724
N.E. cor. sec. 36, tp. 60, R. XII, W.P.M., ground.....	778
N.E. cor. sec. 35, tp. 60, R. XIII, W.P.M., ground.....	811
N.E. cor. sec. 36, tp. 60, R. XIV, W.P.M., ground.....	839
N.E. cor. sec. 36, tp. 60, R. XV, W.P.M., ground.....	940
N. bdy. sec. 31, tp. 60, R. XV, W.P.M., lake.....	900
N.E. cor. sec. 36, tp. 60, R. XVI, W.P.M., ground.....	911
N.E. cor. sec. 36, tp. 60, R. XVII, W.P.M., ground.....	882
N.E. cor. sec. 36, tp. 60, R. XVIII, W.P.M., ground.....	908
N.E. cor. sec. 36, tp. 60, R. XX, W.P.M., ground.....	868
N.E. cor. sec. 36, tp. 60, R. XXI, W.P.M., ground.....	862
N. bdy. sec. 36, tp. 60, R. XXI, W.P.M., Pickerel creek.....	844
Little Cormorant lake.....	841
Hudson Bay Ry. crossing.....	852
N.E. cor. sec. 36, tp. 60, R. XXII, W.P.M., ground.....	866
Cormorant lake.....	841
N.E. cor. sec. 36, tp. 60, R. XXV, W.P.M., ground.....	920
N.E. cor. sec. 36, tp. 60, R. XXVI, W.P.M., ground.....	1,006
N. bdy. sec. 36, tp. 60, R. XXVI, summit.....	1,034
N.E. cor. sec. 36, tp. 60, R. XXVII.....	966
Reindeer lake.....	877
N.E. cor. sec. 36, tp. 60, R. XXIX.....	948
Chocolate lake.....	938

17th Base, West of Principal Meridian

N.E. cor. sec. 36, tp. 64, R. I.....	737
Clarke lake.....	728
Keeper lake.....	728
Cross lake.....	683
N.E. cor. sec. 36, tp. 64, R. VI.....	707
N.E. cor. sec. 36, tp. 64, R. VII.....	699
N.E. cor. sec. 36, tp. 64, R. VIII.....	714
N.E. cor. sec. 36, tp. 64, R. IX.....	732
Paxton lake.....	716
Lily lake.....	715
Muningwari lake.....	717

MANITOBA

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BASE AND MERIDIAN LINES—SURVEYOR GENERAL'S BRANCH

Elevation
above mean
sea level

17th Base, West of Principal Meridian

N.E. cor. sec. 31, tp. 64, R. X	775
N.E. cor. sec. 31, tp. 64, R. XI	832
N.E. cor. sec. 36, tp. 64, R. XIII	852
Hudson Bay Ry. crossing	852
N.E. cor. tp. 64, R. XIV	849
N. bdy. sec. 36, tp. 64, R. XIV, Mitishto river	828
N. bdy. sec. 34, tp. 64, R. XIV, Mitishto river	840
N.E. cor. sec. 36, tp. 64, R. XV	858
N.E. cor. sec. 36, tp. 64, R. XVI	890
N.E. cor. sec. 36, tp. 64, R. XVII	912
N. bdy. sec. 35, tp. 64, R. XVIII, Hayward creek	933
N.E. cor. tp. 64, R. XIX	914
N. bdy. sec. 31, tp. 64, R. XIX, summit	930
Reed lake	975
	915

18th Base, West of Principal Meridian

N.E. cor. sec. 36, tp. 68, R. I, lake	657
N.E. cor. sec. 36, tp. 68, R. II	667
N. bdy. sec. 33, tp. 68, R. II, Muskeg lake	649
N.E. cor. sec. 36, tp. 68, R. III	634
N. bdy. sec. 34, tp. 68, R. III, Sipiwek lake	604
N.E. cor. sec. 36, tp. 68, R. IV	619
N. bdy. sec. 35, tp. 68, R. IV, Nelson river	605
N. bdy. sec. 31, tp. 68, R. IV, summit	765
N.E. cor. sec. 36, tp. 68, R. V	732
N.E. cor. sec. 31, tp. 68, R. V	629
N.E. cor. sec. 36, tp. 68, R. VII	643
N.E. cor. sec. 36, tp. 68, R. VIII	752
Hudson Bay Ry. crossing	748
N. bdy. sec. 33, tp. 68, R. VIII, summit	795
Setting lake	740
N. bdy. sec. 34, tp. 68, R. IX, Grass river	740
Pakwa lake	741
N.E. cor. sec. 36, tp. 68, R. X	762
N.E. cor. sec. 36, tp. 68, R. XII	821
N.E. cor. sec. 36, tp. 68, R. XIII	827
N.E. cor. sec. 36, tp. 68, R. XIV	842
N. bdy. sec. 36, tp. 68, R. XIV, Grass river	819
N.E. cor. sec. 36, tp. 68, R. XV	936
N. bdy. sec. 36, tp. 68, R. XV, Grass river	841
N. bdy. sec. 36, tp. 68, R. XVI, Wekusko brook	843
N. bdy. sec. 34, tp. 68, R. XVI, summit	1,016
N.E. cor. sec. 34, tp. 68, R. XVII	953

19th Base, West of Principal Meridian

Landing lake	631
N.E. cor. sec. 36, tp. 72, R. II	636
N.E. cor. sec. 36, tp. 72, R. III	643
Hudson Bay Ry. crossing	637
Wintering lake	897
N.E. cor. sec. 31, tp. 72, R. III	655
N.E. cor. sec. 31, tp. 72, R. IV	730

BASE AND MERIDIAN LINES—SURVEYOR GENERAL'S BRANCH

Elevation
above mean
sea level

19th Base, West of Principal Meridian

N. bdy. sec. 35, tp. 72, R. V, Halfway river.....	676
N. bdy. sec. 31, tp. 72, R. V, Grass river.....	632
N.E. cor. sec. 36, tp. 72, R. VI.....	699
N.W. cor. sec. 36, tp. 72, R. VII.....	825

20th Base, East of Principal Meridian

Pincimuta lake.....	597
N.E. cor. sec. 36, tp. 76, R. II.....	685
Hudson Bay Ry. crossing.....	671
N.E. cor. tp. 76, R. III.....	703
N.E. cor. tp. 76, R. IV.....	687
Nelson river.....	598
N.E. cor. tp. 76, R. V.....	688
N.E. cor. tp. 76, R. VI.....	684
N.E. cor. sec. 34, tp. 76, R. VII.....	702

20th Base, West of Principal Meridian

N.E. cor. sec. 36, tp. 76, R. I.....	644
N. bdy. sec. 36, tp. 76, R. I, Grass river.....	597
N.E. cor. sec. 36, tp. 76, R. II.....	663
N.E. cor. sec. 35, tp. 76, R. III.....	656
N.E. cor. sec. 36, tp. 76, R. IV.....	738

21st Base, East of Principal Meridian

N. bdy. sec. 35, tp. 80, R. I, Odei river.....	615
N. bdy. sec. 31, tp. 80, R. II, Odei river.....	553
N. bdy. sec. 34, tp. 80, R. II, Burntwood river.....	603
N.E. cor. sec. 36, tp. 80, R. II.....	641
N. bdy. sec. 31, tp. 80, R. III, Burntwood river.....	571
N.E. cor. sec. 36, tp. 80, R. III.....	687
N.E. cor. sec. 36, tp. 80, R. IV.....	600
N. bdy. sec. 31, tp. 80, R. V, Witchai lake.....	583
N.E. cor. tp. 80, R. V.....	655
N. bdy. sec. 36, tp. 80, R. VI, Nelson river.....	583
N.E. cor. tp. 80, R. VI.....	655
N.E. cor. sec. 36, tp. 80, R. VII.....	617
N.E. cor. sec. 36, tp. 80, R. VIII.....	680
N.E. cor. sec. 35, tp. 80, R. IX.....	650

Second Meridian

E. bdy. sec. 25, tp. 56, R. I, W. 2 M., Saskatchewan river.....	855
E. bdy. sec. 36, tp. 56, R. I, W. 2 M., Tearing river.....	857
N.E. cor. sec. 36, tp. 56, R. I, W. 2 M., ground.....	875
E. bdy. sec. 12, tp. 56, R. I, W. 2 M., Bélanger lake.....	876
N.E. cor. sec. 36, tp. 57, R. I, W. 2 M., ground.....	924
N.E. cor. sec. 36, tp. 58, R. I, W. 2 M., ground.....	924
Nome lake.....	873
E. bdy. sec. 36, tp. 60, R. I, W. 2 M., ground.....	876
N.E. cor. sec. 36, tp. 61, R. I, W. 2 M., ground.....	980
E. bdy. sec. 13, tp. 62, R. I, W. 2 M., Sturgeon-weir river.....	928
N.E. cor. sec. 36, tp. 62, R. I, W. 2 M., ground.....	963
Maraichi lake.....	979
N.E. cor. sec. 36, tp. 63, R. I, W. 2 M., ground.....	1,002
N.E. cor. sec. 36, tp. 64, R. I, W. 2 M., ground.....	1,018
E. bdy. sec. 12, tp. 65, R. I, W. 2 M., lake.....	1,006

SASKATCHEWAN

485

BASE AND MERIDIAN LINES—SURVEYOR GENERAL'S BRANCH

Elevation
above mean
sea level

Second Meridian

N.E. cor. sec. 36, tp. 65, R. I, W. 2 M., ground	1,061
E. bdy. sec. 1, tp. 66, R. I, W. 2 M., lake	1,031
E. bdy. sec. 36, tp. 66, R. I, W. 2 M., lake	1,056
N.E. cor. sec. 36, tp. 66, R. I, W. 2 M., ground	1,127
E. bdy. sec. 1, tp. 67, R. I, W. 2 M., lake	1,114
E. bdy. sec. 13, tp. 67, R. I, W. 2 M., ground	1,143
E. bdy. sec. 13, tp. 67, R. I, W. 2 M., lake	1,134

13th Base, West of Second Meridian

N.E. cor. sec. 36, tp. 48, R. I, W. 2 M., ground	1 051
N. bdy. sec. 33, tp. 48, R. I, W. 2 M., Pasquia river	1,082
N.E. cor. sec. 36, tp. 48, R. II, W. 2 M., ground	1,210
N. bdy. sec. 33, tp. 48, R. II, W. 2 M., ground	1,411
N. bdy. sec. 32, tp. 48, R. II, W. 2 M., ground	1,574
N.E. cor. sec. 36, tp. 48, R. III, W. 2 M., ground	2,071
N. bdy. sec. 34, tp. 48, R. III, W. 2 M., ground	2,484
N.E. cor. sec. 36, tp. 48, R. IV, W. 2 M., ground	2,184
N. bdy. sec. 33, tp. 48, R. IV, W. 2 M., ground	2,047
N.E. cor. sec. 36, tp. 48, R. V, W. 2 M., ground	2,024

15th Base, West of Second Meridian

N.E. cor. sec. 36, tp. 56, R. I, W. 2 M., ground	875
N. bdy. sec. 33, tp. 56, R. I, W. 2 M., Tearing river	865
N.E. cor. sec. 36, tp. 56, R. II, W. 2 M., ground	869
N. bdy. sec. 34, tp. 56, R. II, W. 2 M., Saskatchewan river	862
N.E. cor. sec. 36, tp. 56, R. III, W. 2 M., lake	871
N. bdy. sec. 32, tp. 56, R. III, W. 2 M., lake	873
N. bdy. sec. 34, tp. 56, R. IV, W. 2 M., ground	876
N.E. cor. sec. 36, tp. 56, R. V, W. 2 M., ground	878
N.E. cor. sec. 36, tp. 56, R. VI, W. 2 M., ground	882
N. bdy. sec. 32, tp. 56, R. VI, W. 2 M., Saskatchewan river, old channel	886
N.E. cor. sec. 36, tp. 56, R. VII, W. 2 M., ground	892
N. bdy. sec. 36, tp. 56, R. VIII, W. 2 M., Saskatchewan river, new channel	894
N. bdy. sec. 34, tp. 56, R. VIII, W. 2 M., Torch river	891
N.E. cor. sec. 36, tp. 56, R. IX, W. 2 M., ground	938
N. bdy. sec. 32, tp. 56, R. IX, W. 2 M., Torch river	926
N.E. cor. sec. 36, tp. 56, R. X, W. 2 M., ground	964
N.E. cor. sec. 36, tp. 56, R. XI, W. 2 M., ground	1,039
N.E. cor. sec. 36, tp. 56, R. XII, W. 2 M., ground	1,168
N.E. cor. sec. 36, tp. 56, R. XIII, W. 2 M., ground	1,173
N.E. cor. sec. 36, tp. 56, R. XIV, W. 2 M., ground	1,191
N.E. cor. sec. 36, tp. 56, R. XV, W. 2 M., ground	1,263
N.E. cor. sec. 36, tp. 56, R. XVI, W. 2 M., ground	1,349
N. bdy. sec. 35, tp. 56, R. XVII, W. 2 M., ground	1,463
N.E. cor. sec. 36, tp. 56, R. XVIII, W. 2 M., summit	1,574
N.E. cor. sec. 36, tp. 56, R. XIX, W. 2 M., ground	1,499
N. bdy. sec. 34, tp. 56, R. XIV, W. 2 M., White Gull river	1,591
N.E. cor. sec. 36, tp. 56, R. XX, W. 2 M., ground	1,639
N.E. cor. sec. 36, tp. 56, R. XXI, W. 2 M., ground (summit)	1,702
N. bdy. sec. 36, tp. 56, R. XXII, W. 2 M., ground	1,842
N. bdy. tp. 56, R. XXIII, Candle lake	1,809
N. bdy. tp. 56, R. XXVI, Bittern lake	1,618
	1,672

BASE AND MERIDIAN LINES—SURVEYOR GENERAL'S BRANCH

Elevation
above mean
sea level

Prince Albert to Montreal Lake

Prince Albert, B. M., top, S. end, 4th step of S. entrance of post office.....	1,413.74
Canadian Northern Ry. bridge over North Saskatchewan river, B.M., in top of pier, S. end, 1,403.50; top of pier, N. end, W. side of bridge.....	1,410.26
E. bdy. sec. 12, tp. 49, R. XXVII, Canadian Northern Ry., rail.....	1,411.61
S.E. $\frac{1}{4}$ sec. 13, tp. 49, R. XXVII, W. 2 M., top of iron post.....	1,442.16
S.W. $\frac{1}{4}$ sec. 27, tp. 49, R. XXVII, W. 2 M., top of iron post.....	1,493.55
N.E. $\frac{1}{4}$ sec. 7, tp. 50, R. XXVII, W. 2 M., top of iron post.....	1,465.9
N.E. $\frac{1}{4}$ sec. 26, tp. 50, R. XXVIII, W. 2 M., top of iron post.....	1,497.10
W. bdy. sec. 19, tp. 51, R. XXVII, W. 2 M., top of iron post.....	1,523.85
Little Red River Indian res., top of iron post, 64 ft. E. of road survey post 136.....	1,631.51
Little Red River Indian res., top of iron post, 104 ft. N. of road survey post 167....	1,715.1
N. bdy. sec. 36, tp. 52, R. I, W. 3 M., poplar stump, 66 ft. S.W. of corner.....	1,690.80

Third Meridian

N.E. cor. sec. 36, tp. 52, R. I, W. 3 M., ground.....	1,694
E. bdy. sec. 1, tp. 53, R. I, W. 3 M., Spruce river.....	1,623
N.E. cor. sec. 36, tp. 53, R. I, W. 3 M., ground.....	1,767
E. bdy. sec. 13, tp. 54, R. I, W. 3 M., Spruce river.....	1,677
N.E. cor. sec. 36, tp. 55, R. I, W. 3 M., ground.....	1,738
N.E. cor. sec. 36, tp. 56, R. I, W. 3 M., small lake.....	1,880
N.E. cor. sec. 36, tp. 57, R. I, W. 3 M., ground.....	1,781
E. bdy. sec. 24, tp. 58, R. I, W. 3 M., Waskesiu creek.....	1,707
N.E. cor. sec. 36, tp. 58, R. I, W. 3 M., ground.....	1,731
N.E. cor. sec. 36, tp. 59, R. I, W. 3 M., ground.....	1,693
N.E. cor. sec. 36, tp. 60, R. I, W. 3 M., ground.....	1,708
E. bdy. sec. 1, tp. 61, R. I, W. 3 M., MacLennan river.....	1,650
N.E. cor. sec. 36, tp. 61, R. I, W. 3 M., ground.....	2,029
N.E. cor. sec. 36, tp. 62, R. I, W. 3 M., ground.....	2,032
Weyakwin lake.....	1,928
N.E. cor. sec. 36, tp. 64, R. I, W. 3 M., ground.....	1,984
E. bdy. sec. 25, tp. 65, R. I, W. 3 M., creek.....	1,717
E. bdy. sec. 12, tp. 66, R. I, W. 3 M., creek.....	1,662
N.E. cor. sec. 36, tp. 66, R. I, W. 3 M., ground.....	1,726
E. bdy. sec. 12, tp. 67, R. I, W. 3 M., creek.....	1,584
E. bdy. sec. 25, tp. 67, R. I, W. 3 M., Twoforks river.....	1,477
E. bdy. sec. 36, tp. 67, R. I, W. 3 M., ground.....	1,487
N.E. cor. sec. 36, tp. 68, R. I, W. 3 M., ground.....	1,435
N.E. cor. tp. 69, R. I.....	1,432
N.E. cor. tp. 70, R. I.....	1,379
N.E. cor. tp. 71, R. I.....	1,293
Lynx river.....	1,270
N.E. cor. tp. 72, R. I.....	1,301

15th Base, West of Third Meridian

N.E. cor. sec. 36, tp. 56, R. I, W. 3 M., small lake.....	1,880
Waskesiu lake.....	1,880
N.E. cor. sec. 36, tp. 56, R. II, W. 3 M., ground.....	1,761
N.E. cor. sec. 36, tp. 56, R. III, W. 3 M., ground.....	2,152
N.E. cor. sec. 36, tp. 56, R. IV, W. 3 M., ground.....	2,297
N.E. cor. sec. 36, tp. 56, R. V, W. 3 M., ground.....	2,143
N.E. cor. sec. 36, tp. 56, R. VI, W. 3 M., ground.....	1,757
N.E. cor. sec. 36, tp. 56, R. VII, W. 3 M., ground.....	1,645

SASKATCHEWAN

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BASE AND MERIDIAN LINES—SURVEYOR GENERAL'S BRANCH

Elevation
above mean
sea level

15th Base, West of Third Meridian

413.74	Delaronde lake.....	
	N.E. cor. sec. 36, tp. 56, R. VIII, W. 3 M., ground.....	1,620
410.26	N.E. cor. sec. 36, tp. 56, R. IX, W. 3 M., ground.....	1,659
411.61	N.E. cor. sec. 36, tp. 56, R. X, W. 3 M., ground.....	1,657
442.16	N.E. cor. sec. 36, tp. 56, R. XI, W. 3 M., ground.....	1,789
493.55	N. bdy. sec. 31, tp. 56, R. XI, W. 3 M., creek.....	1,805
465.9	N.E. cor. sec. 36, tp. 56, R. XII, W. 3 M., ground.....	1,763
497.19	N.E. cor. sec. 36, tp. 56, R. XIII, W. 3 M., ground.....	1,840
523.85	N. bdy. sec. 31, tp. 56, R. XIII, W. 3 M., Chitek river.....	1,842
631.51	N.E. cor. sec. 36, tp. 56, R. XIV, W. 3 M., ground.....	1,798
715.1	N.E. cor. sec. 36, tp. 56, R. XV, W. 3 M., ground.....	1,831
696.80	N.E. cor. sec. 36, tp. 56, R. XVI, W. 3 M., ground.....	1,884
	N.E. cor. sec. 36, tp. 56, R. XVII, W. 3 M., ground.....	1,970
	N.E. cor. sec. 36, tp. 56, R. XVIII, W. 3 M., ground.....	2,225
	N.E. cor. sec. 36, tp. 56, R. XIX, W. 3 M., ground.....	2,358
	N.E. cor. sec. 36, tp. 56, R. XX, W. 3 M., ground.....	2,246
	N.E. cor. sec. 36, tp. 56, R. XX, W. 3 M., Rabbit river.....	1,961
	N.E. cor. sec. 36, tp. 56, R. XXI, W. 3 M., ground.....	1,900
	N.E. cor. sec. 36, tp. 56, R. XXII, W. 3 M., ground.....	1,934
	N.E. cor. sec. 36, tp. 56, R. XXIII, W. 3 M., ground.....	1,960
	N.E. cor. sec. 36, tp. 56, R. XXIV, W. 3 M., ground.....	2,021
	N.E. cor. sec. 36, tp. 56, R. XXV, W. 3 M., ground.....	2,188
	Peck lake.....	2,015
	N.E. cor. sec. 36, tp. 56, R. XXVI, W. 3 M., ground.....	2,004
	N.E. cor. sec. 36, tp. 56, R. XXVII, W. 3 M., ground.....	2,125
	N.W. cor. sec. 31, tp. 56, R. XXVII, W. 3 M., ground.....	2,063
		2,155

16th Base, West of Third Meridian

	N.E. cor. sec. 36, tp. 60, R. I, W. 3 M., ground.....	1,708
	N.E. cor. sec. 36, tp. 60, R. II, W. 3 M., ground.....	1,755
	N.E. cor. sec. 36, tp. 60, R. III, W. 3 M., ground.....	1,991
	N.E. cor. sec. 36, tp. 60, R. IV, W. 3 M., ground.....	1,994
	Lavallée lake.....	1,776
	N.E. cor. sec. 36, tp. 60, R. V, W. 3 M., ground.....	1,779
	N.E. cor. sec. 36, tp. 60, R. VI, W. 3 M., ground.....	1,770
	N.E. cor. sec. 36, tp. 60, R. VII, W. 3 M., ground.....	1,813
	N. bdy. sec. 31, tp. 60, R. VII, W. 3 M., Lawrence lake.....	1,731
	N.E. cor. sec. 36, tp. 60, R. VIII, W. 3 M., ground.....	1,741
	Delaronde lake.....	1,620
	N.E. cor. sec. 36, tp. 60, R. IX, W. 3 M., ground.....	1,649
	N.E. cor. sec. 36, tp. 60, R. X, W. 3 M., ground.....	1,668
	N.E. cor. sec. 36, tp. 60, R. XI, W. 3 M., ground.....	1,593
	N.E. cor. sec. 36, tp. 60, R. XII, W. 3 M., ground.....	1,605
	Green lake.....	1,485
	N.E. cor. sec. 36, tp. 60, R. XIII, W. 3 M., ground.....	1,541
	N.E. cor. sec. 36, tp. 60, R. XIV, W. 3 M., ground.....	1,551
	N.E. cor. sec. 36, tp. 60, R. XV, W. 3 M., ground.....	1,528
	N.E. cor. sec. 36, tp. 60, R. XVI, W. 3 M., ground.....	1,589
	N.E. cor. sec. 36, tp. 60, R. XVII, W. 3 M., ground.....	1,519
	N.E. cor. sec. 36, tp. 60, R. XVIII, W. 3 M., ground.....	1,546
	N. bdy. sec. 36, tp. 60, R. XIX, W. 3 M., ground.....	1,628
	N.F. cor. sec. 36, tp. 60, R. XX, W. 3 M., Makwa river.....	1,536
	N.E. cor. sec. 36, tp. 60, R. XXI, W. 3 M., ground.....	1,703
		1,668

BASE AND MERIDIAN LINES—SURVEYOR GENERAL'S BRANCH

Elevation
above mean
sea level

16th Base, West of Third Meridian

N.E. cor. sec. 36, tp. 60, R. XXII, W. 3 M., ground.....	1,690
N. bdy. sec. 33, tp. 60, R. XXII, W. 3 M., Beaver river.....	1,554
N.E. cor. sec. 36, tp. 60, R. XXIII, W. 3 M., ground.....	1,680
N. bdy. sec. 33, tp. 60, R. XXIII, W. 3 M., Beaver river.....	1,563
N.E. cor. sec. 36, tp. 60, R. XXIV, W. 3 M., ground.....	1,839
N.E. cor. sec. 36, tp. 60, R. XXV, W. 3 M., ground.....	1,807
N. bdy. sec. 36, tp. 60, R. XXVI, W. 3 M., ground.....	1,816
N.E. cor. sec. 36, tp. 60, R. XXVII, W. 3 M., ground.....	1,759
N.W. cor. sec. 32, tp. 60, R. XXVII, W. 3 M., ground.....	1,774

17th Base, West of Third Meridian

N.E. cor. sec. 36, tp. 64, R. I, W. 3 M., ground.....	1,984
N.E. cor. sec. 36, tp. 64, R. II, W. 3 M., ground.....	2,002
N. bdy. sec. 33, tp. 64, R. II, W. 3 M., small lake.....	2,061
N.E. cor. sec. 36, tp. 64, R. III, W. 3 M., ground.....	2,229
N.E. cor. sec. 36, tp. 64, R. IV, W. 3 M., ground.....	2,101
N.E. cor. sec. 36, tp. 64, R. V, W. 3 M., ground.....	1,808
N. bdy. sec. 34, tp. 64, R. V, W. 3 M., creek.....	1,689
N. bdy. sec. 34, tp. 64, R. V, W. 3 M., Philion lake.....	1,680
N.E. cor. sec. 36, tp. 64, R. VI, W. 3 M., ground.....	1,582
N. bdy. sec. 31, tp. 64, R. VI, W. 3 M., Smoothstone lake.....	1,570
N.E. cor. sec. 36, tp. 64, R. VIII, W. 3 M., ground.....	1,579
N.E. cor. sec. 36, tp. 64, R. IX, W. 3 M., ground.....	1,590
N.E. cor. sec. 36, tp. 64, R. X, W. 3 M., ground.....	1,582
N. bdy. sec. 31, tp. 64, R. X, W. 3 M., Sled river.....	1,531
N.E. cor. sec. 36, tp. 64, R. XI, W. 3 M., ground.....	1,533
N.E. cor. sec. 36, tp. 64, R. XII, W. 3 M., ground.....	1,686
N. bdy. sec. 32, tp. 64, R. XII, W. 3 M., Beaver river.....	1,469
N.E. cor. sec. 36, tp. 64, R. XIII, W. 3 M., ground.....	1,543
N.E. cor. sec. 36, tp. 64, R. XIV, W. 3 M., ground.....	1,568
N. bdy. sec. 31, tp. 64, R. XIV, W. 3 M., Waterhen river.....	1,530
N.E. cor. sec. 36, tp. 64, R. XV, W. 3 M., ground.....	1,545
N.E. cor. sec. 36, tp. 64, R. XVI, W. 3 M., ground.....	1,691
N. bdy. sec. 36, tp. 64, R. XVII, W. 3 M., ground at $\frac{1}{4}$ sec. post.....	1,729
N. bdy. sec. 32, tp. 64, R. XVII, W. 3 M., Flotten lake.....	1,588
N.E. cor. sec. 36, tp. 64, R. XVIII, W. 3 M., ground.....	1,660
N.E. cor. sec. 36, tp. 64, R. XIX, W. 3 M., ground.....	2,096
N. bdy. sec. 32, tp. 64, R. XIX, W. 3 M., creek.....	2,022
N.E. cor. sec. 36, tp. 64, R. XX, W. 3 M., ground.....	2,251
N.E. cor. sec. 36, tp. 64, R. XXI, W. 3 M., ground.....	2,282
N.E. cor. sec. 36, tp. 64, R. XXII, W. 3 M., ground.....	2,161
N.E. cor. sec. 36, tp. 64, R. XXIII, W. 3 M., ground.....	2,099
N. bdy. sec. 36, tp. 64, R. XXIII, W. 3 M., creek.....	1,983
N.E. cor. sec. 36, tp. 64, R. XXIV, W. 3 M., ground.....	2,042
N.E. cor. sec. 36, tp. 64, R. XXV, W. 3 M., ground.....	2,045
N.E. cor. sec. 36, tp. 64, R. XXVI, W. 3 M., ground.....	1,994
Cold lake.....	1,753

18th Base, West of Third Meridian

N. bdy. sec. 36, tp. 68, R. I, W. 3 M., ground.....	1,435
N.E. cor. sec. 36, tp. 68, R. II, W. 3 M., ground.....	1,415
N. bdy. sec. 35, tp. 68, R. II, W. 3 M., Twoforks river.....	1,397
N.E. cor. sec. 36, tp. 68, R. III, W. 3 M., ground.....	1,436

BASE AND MERIDIAN LINES SURVEYOR GENERAL'S BRANCH

Elevation
above mean
sea level

18th Base, West of Third Meridian

N.E. cor. sec. 36, tp. 68, R. IV, W. 3 M., Swamp water.	1,406
N. bdy. sec. 34, tp. 68, R. V, W. 3 M., Smoothstone river	1,393
N.E. cor. sec. 36, tp. 68, R. V, W. 3 M., ground	1,393
N.E. cor. sec. 36, tp. 68, R. VI, W. 3 M., ground	1,400
N. bdy. sec. 36, tp. 68, R. VII, W. 3 M., ground	1,519
N.E. cor. sec. 36, tp. 68, R. VIII, W. 3 M., ground	1,559
N.E. cor. sec. 36, tp. 68, R. IX, W. 3 M., ground	1,683
N. bdy. sec. 34, tp. 68, R. IX, W. 3 M., summit	1,715
N.E. cor. sec. 36, tp. 68, R. X, W. 3 M., ground	1,852
N.E. cor. sec. 36, tp. 68, R. XI, W. 3 M., ground	1,649
N. bdy. sec. 33, tp. 68, R. XII, W. 3 M., Olsen creek	1,599
N.E. cor. sec. 36, tp. 68, R. XII, W. 3 M., ground	1,521
N. bdy. sec. 34, tp. 68, R. XII, W. 3 M., Beaver river	1,449
N.E. cor. sec. 36, tp. 68, R. XIII, W. 3 M., ground	1,377
N. bdy. sec. 36, tp. 68, R. XIV, W. 3 M., ground	1,429
N.E. cor. sec. 36, tp. 68, R. XV, W. 3 M., Keeley lake	1,499
N.E. cor. sec. 36, tp. 68, R. XVI, W. 3 M., ground	1,486
N.E. cor. sec. 36, tp. 68, R. XVII, W. 3 M., ground	1,661
N.E. cor. sec. 36, tp. 68, R. XVIII, W. 3 M., ground	1,772
N. bdy. sec. 36, tp. 68, R. XIX, W. 3 M., ground	1,950
N.E. cor. sec. 36, tp. 68, R. XX, W. 3 M., ground	2,088
N.E. cor. sec. 36, tp. 68, R. XXI, W. 3 M., ground	2,241
N.E. cor. sec. 36, tp. 68, R. XXII, W. 3 M., ground	2,158
N.E. cor. sec. 36, tp. 68, R. XXIII, W. 3 M., ground	2,102
N.E. cor. sec. 36, tp. 68, R. XXIV, W. 3 M., ground	2,049
Primrose lake	1,976
N. bdy. sec. 32, tp. 68, R. XXVI, W. 3 M., Shaver river	1,960
N.E. cor. sec. 36, tp. 68, R. XXVII, W. 3 M., ground	1,976
N.W. cor. tp. 68, R. XXVII, W. 3 M., ground	2,117
	2,118

19th Base, West of Third Meridian

N.E. cor. sec. 36, tp. 72, R. II	1,289
N.E. cor. sec. 36, tp. 72, R. III	1,313
N.E. cor. sec. 36, tp. 72, R. IV	1,293
N. bdy. sec. 36, tp. 72, R. IV, Wistago creek	1,261
N. bdy. sec. 31, tp. 72, R. IV, Smoothstone river	1,200
N. bdy. sec. 33, tp. 72, R. V, Tibbo river	1,262
N.E. cor. tp. 72, R. VI	1,389
N.E. cor. tp. 72, R. VII	1,557
N.E. cor. tp. 72, R. VIII	1,527
N.E. cor. tp. 72, R. IX	1,686
N.E. cor. tp. 72, R. X	1,617
N.E. cor. tp. 72, R. XI	1,475
N. bdy. sec. 33, tp. 72, R. XI, Beaver river	1,378
N.E. cor. tp. 72, R. XII	1,416
Ile-à-la-Crosse lake	1,378
N.E. cor. tp. 72, R. XIII	1,425
N.E. cor. tp. 72, R. XIV	1,415
N. bdy. sec. 34, tp. 72, R. XIV, Canoe river	1,401
N. bdy. sec. 34, tp. 72, R. XV	1,420
N. bdy. sec. 34, tp. 72, R. XVI	1,440
N. bdy. sec. 34, tp. 72, R. XVII	1,473
N. bdy. sec. 32, tp. 72, R. XVII	1,631
N.E. cor. sec. 36, tp. 72, R. XVIII	1,542

BASE AND MERIDIAN LINES- SURVEYOR GENERAL'S BRANCH

Elevation
above mean
sea level

Lloydminster Northerly to the 16th Base

Lloydminster, top of lowest step, main entrance, Royal George hotel.....	2,122.4
Lloydminster, top of step, main entrance, Northern Crown bank.....	2,124.9
Lloydminster, top of pillar, 300 ft. west of Lloydminster station.....	2,124.0
Lloydminster, Canadian Northern Ry. station.....	2,119.9
E. bdy. sec. 12, tp. 50, R. I, W. 4 M., top of iron post, 3 ft. W. of $\frac{1}{2}$ post.....	2,094.6
E. bdy. sec. 36, tp. 50, R. I, W. 4 M., top of iron post, 8 ft. N. of $\frac{1}{2}$ post.....	2,084.9
E. bdy. sec. 24, tp. 51, R. I, W. 4 M., top of iron post, 11 ft. N. of $\frac{1}{2}$ post.....	2,052.8
Nail in guard rail, E. end, N. side of highway bridge, 1,980 ft. N. of 25-51-I.....	1,915.2
Sec. 1, tp. 52, R. I, W. 4 M., top of road survey post IV, W.P.....	1,911.1
E. bdy. sec. 13, tp. 52, R. I, top of iron post 64 ft. N. of $\frac{1}{2}$ post.....	1,956.0
Sec. 36, tp. 52, R. I, W. 4 M., top of iron post, 94 ft. S. of W.I.P.....	2,025.3
E. bdy. sec. 24, tp. 53, R. I, top of iron post, 74 ft. N. of sec. cor.....	1,707.7
Sec. 25, tp. 53, R. XXVIII, iron post, 64 ft. south of road survey post No. 9.....	1,659.6
Iron post, 74 ft. southeast of N.E. cor. sec. 2, tp. 54, R. I, W. 4 M.....	1,939.7
Indian reserve No. 120, iron post, 114 ft. S. of post on 4th iner., N. bdy. of res.....	1,984.9
Indian reserve No. 119, nail in stump, left side of trail to Island lake.....	2,052.6
N. bdy. sec. 19, tp. 55, R. XXVI, nail in stump, 487 ft. east of $\frac{1}{2}$ post.....	2,156.3
E. bdy. sec. 31, tp. 55, R. XXVI, nail in stump, 163 ft. south of $\frac{1}{2}$ post.....	2,202.2
Nail in stump, 1,993 ft. N. of N.E. cor. sec. 21, tp. 56, R. XXVI.....	2,078.6
Nail in stump, E. body. 10 ft. S. of N.E. cor. sec. 34, tp. 56, R. XXVI.....	2,065.7
Nail in poplar stump, 20 ft. W. of N.E. cor. sec. 33, tp. 56, R. XXVI.....	2,059.9
Nail in poplar stump, 13 ft. N.W. of N.E. cor. sec. 34, tp. 56, R. XXVI.....	2,140.6
Top of iron post, 914 ft. W. of N.E. cor. sec. 25, tp. 57, R. XXVI, W. 3 M.....	2,023.4
Nail in stump, 27 ft. N. and 157 ft. E. of $\frac{1}{2}$ post in N. bdy. of 7-58-XXV.....	1,912.2
N. bdy. sec. 19, tp. 58, R. XXV, W. 3 M., iron post, 1,102 ft. east of $\frac{1}{2}$ post.....	2,027.0
Nail in poplar stump, 120 ft. W. and 70 ft. S. of $\frac{1}{2}$ post in S. bdy. of 4-59-XXV.....	1,030.3
Nail in stump, 1,308 ft. E. and 124 ft. S. of N.E. cor. of 7-59-CXV.....	1,848.5
Sec. 25, tp. 59, R. XXVI, nail in stump, 411 ft. W. and 254 ft. N. of I.P.....	1,830.0
Nail in stump, 2,050 ft. E. and 14 ft. S. of N.E. cor. of 36-59-XXVI.....	1,788.5
In stump, 738 ft. E. and 213 ft. N. of N.E. cor. of sec. 12, tp. 60, R. XXVI.....	1,770.2
In poplar stump, 135 ft. E. of W.I.P., marked 26 N., sec. 17, tp. 60, R. XXV.....	1,747.1
North bdy. sec. 21, tp. 60, R. XXV, in stump, 1,268 ft. W. of $\frac{1}{2}$ post.....	1,750.1
N. bdy. sec. 33, tp. 60, R. XXV, in stump, 1,270 ft. E. and 5 ft. N. of $\frac{1}{2}$ post.....	1,777.5
Nail in poplar stump, 11 ft. W. of $\frac{1}{2}$ post in N. bdy. of 33-60-XXV.....	1,779.8
Nail in poplar stump, 50 ft. W. of N.E. cor. of 32-60-XXV.....	1,817.2

Fourth Meridian

N.E. cor. sec. 36, tp. 60, R. I, W. 4 M., ground.....	1,774
E. bdy. sec. 13, tp. 61, R. I, W. 4 M., Beaver river.....	1,597
$\frac{1}{2}$ post, sec. 36, tp. 61, R. I, W. 4 M., ground.....	1,857
N.E. cor. sec. 36, tp. 62, R. I, W. 4 M., ground.....	2,047
Cold lake.....	1,753
N.E. cor. sec. 36, tp. 65, R. I, W. 4 M., ground.....	1,907
E. bdy. sec. 12, tp. 66, R. I, W. 4 M., Martineau river.....	1,808
N.E. cor. sec. 36, tp. 66, R. I, W. 4 M., small lake.....	1,980
E. bdy. sec. 1, tp. 67, R. I, summit.....	2,023
Primrose lake.....	1,961
N.E. cor. sec. 36, tp. 67, R. I, W. 4 M., grou.....	2,009
N.E. cor. sec. 36, tp. 68, R. I, W. 4 M., grou.....	2,118
N.E. bdy. sec. 1, tp. 69, R. I, W. 4 M., Shaver river.....	2,038
N.E. cor. sec. 12, tp. 69, R. I, W. 4 M., ground.....	2,132
S.E. cor. sec. 36, tp. 70, R. I, W. 4 M., ground.....	2,313
S.E. cor. sec. 25, tp. 71, R. I, W. 4 M., Victor creek.....	2,258
N.E. cor. sec. 36, tp. 71, R. I, W. 4 M., ground.....	2,229

Elevation
above mean
sea level

BASE AND MERIDIAN LINES- SURVEYOR GENERAL'S BRANCH

Elevation
above mean
sea level

Fourth Meridian

2,122.4	N.E. cor. sec. 36, tp. 72, R. 1, W. 4 M., ground	
2,124.9	E. bdy. sec. 1, tp. 73, R. 1, W. 4 M., Calder river	2,198
2,124.0	N.E. cor. sec. 36, tp. 73, R. 1, W. 4 M., ground	2,175
2,119.9	E. bdy. sec. 13, tp. 74, R. 1, W. 4 M., summit	2,275
2,094.6	N.E. cor. sec. 36, tp. 74, R. 1, W. 4 M., ground	2,404
2,084.9	N.E. cor. sec. 36, tp. 75, R. 1, W. 4 M., ground	2,337
2,052.8	N.E. cor. sec. 36, tp. 76, R. 1, W. 4 M., ground	2,040
1,915.2	N.E. cor. sec. 36, tp. 77, R. 1, W. 4 M., ground	1,915
1,911.1	E. bdy. sec. 1, tp. 78, R. 1, W. 4 M., Dillon river	1,898
1,956.0	N.E. cor. sec. 36, tp. 78, R. 1, W. 4 M., ground	1,823
2,025.3	N.E. cor. sec. 36, tp. 79, R. 1, W. 4 M., ground	1,813
1,707.7	N.E. cor. sec. 36, tp. 80, R. 1, W. 4 M., ground	1,726
1,659.6	N.E. cor. sec. 36, tp. 81, R. 1, W. 4 M., ground	1,722
1,939.7	N.E. cor. sec. 36, tp. 82, R. 1, W. 4 M., ground	1,683
1,984.9	E. bdy. sec. 36, tp. 83, R. 1, W. 4 M., Formby lake	1,621
2,052.6	E. bdy. sec. 36, tp. 84, R. 1, W. 4 M., Carson lake	1,532
2,156.3	N.E. cor. sec. 36, tp. 85, R. 1, W. 4 M., ground	1,537
2,202.2	N.E. cor. sec. 36, tp. 86, R. 1, W. 4 M., ground	1,580
2,078.6	E. bdy. sec. 25, tp. 87, R. 1, W. 4 M., Edwin river	1,656
2,065.7	N.E. cor. sec. 36, tp. 87, R. 1, W. 4 M., ground	1,595
2,059.9	N.E. cor. sec. 36, tp. 88, R. 1, W. 4 M., ground	1,614
2,140.6	E. bdy. sec. 1, tp. 89, R. 1, W. 4 M., top of valley, S. side of Clearwater river	1,608
2,023.4	E. bdy. sec. 12, tp. 89, R. 1, W. 4 M., Clearwater river, water	1,602
1,912.2	E. bdy. sec. 24, tp. 89, R. 1, W. 4 M., Clearwater river, top of valley, north side of river	1,002
2,027.0	N.E. cor. sec. 36, tp. 89, R. 1, W. 4 M., ground	1,769
1,030.3	E. bdy. sec. 25, tp. 90, R. 1, W. 4 M., Sutton creek	1,820
1,848.5	N.E. cor. sec. 36, tp. 90, R. 1, W. 4 M., ground	1,604
1,830.0	N.E. cor. sec. 36, tp. 91, R. 1, W. 4 M., ground	1,706
1,788.5	N.E. cor. sec. 36, tp. 92, R. 1, W. 4 M., ground	1,791
1,770.2	N.E. cor. sec. 36, tp. 93, R. 1, W. 4 M., ground	1,752
1,747.1	N.E. cor. sec. 36, tp. 94, R. 1, W. 4 M., ground	1,848
1,750.1	E. bdy. sec. 36, tp. 95, R. 1, W. 4 M., creek	1,787
1,777.5	N.E. cor. sec. 36, tp. 95, R. 1, W. 4 M., ground	1,648
1,779.8	E. bdy. sec. 25, tp. 96, R. 1, W. 4 M., Firebag river	1,690
1,817.2	N.E. cor. sec. 36, tp. 96, R. 1, W. 4 M., ground	1,645
	N.E. cor. sec. 36, tp. 97, R. 1, W. 4 M., ground	1,738
	E. bdy. sec. 13, tp. 98, R. 1, W. 4 M., highest elevation north of Clearwater river	1,858
	N.E. cor. sec. 36, tp. 98, R. 1, W. 4 M., ground	1,993
	E. bdy. sec. 1, tp. 99, R. 1, W. 4 M., creek	1,774
	N.E. cor. sec. 36, tp. 99, R. 1, W. 4 M., ground	1,713
	E. bdy. sec. 36, tp. 100, R. 1, W. 4 M., Richardson river	1,871
	N.E. cor. sec. 36, *p. 101, R. 1, W. 4 M., ground	1,413
	E. bdy. sec. 12, tp. 102, R. 1, W. 4 M., Cache creek	1,535
	N.E. cor. sec. 36, tp. 102, R. 1, W. 4 M., ground	1,385
	N.E. cor. sec. 1, tp. 104, R. 1, W. 4 M., ground	1,420
	E. bdy. sec. 13, tp. 104, R. 1, W. 4 M., lake	1,322
	N.E. cor. sec. 36, tp. 104, R. 1, W. 4 M., ground	1,284
	E. bdy. sec. 12, tp. 105, R. 1, W. 4 M., Old Fort river	1,254
	E. bdy. sec. 36, tp. 105, R. 1, W. 4 M., Old Fort river	1,156
	N.E. cor. sec. 36, tp. 105, R. 1, W. 4 M., ground	1,109
	E. bdy. sec. 36, tp. 106, R. 1, W. 4 M., Old Fort river	1,120
	N.E. cor. sec. 36, tp. 107, R. 1, W. 4 M., ground	1,004
	E. bdy. sec. 12, tp. 108, R. 1, W. 4 M., Douglas river	965
	N.E. cor. sec. 36, tp. 108, R. 1, W. 4 M., ground	896
	E. bdy. sec. 25, tp. 109, R. 1, W. 4 M., Harrison river, lake-expansion	951
		919

BASE AND MERIDIAN LINES SURVEY OF GENERAL'S BRANCH

Elevation
above mean
sea level

Fourth Meridian

N.E. cor. sec. 12, tp. 110, R. I, W. 4 M., ground	930
N.E. cor. sec. 36, tp. 110, R. I, W. 4 M., ground	968
N.E. cor. sec. 36, tp. 111, R. I, W. 4 M., ground	930
N.E. cor. sec. 36, tp. 112, R. I, W. 4 M., ground	878
E. bdy. sec. 36, tp. 113, R. I, W. 4 M., ground	856
E. bdy. sec. 12, tp. 114, R. I, W. 4 M., Lillaboo lake	850
N.E. cor. sec. 36, tp. 114, R. I, W. 4 M., ground	734
E. bdy. sec. 1, tp. 115, R. I, W. 4 M., McFarlane	698
Lake Athabaska, high water mark, 703; water	695

18th Base, West of Fourth

N.E. cor. sec. 36, tp. 68, R. I, W. 4 M., ground	2,118
N.E. cor. sec. 36, tp. 68, R. II, W. 4 M., ground	2,271
N. bdy. sec. 36, tp. 68, R. II, W. 4 M., Medley river	2,329
N.E. cor. sec. 36, tp. 68, R. III, W. 4 M., ground	2,369
N.E. cor. sec. 36, tp. 68, R. IV, W. 4 M., ground	2,382
N. bdy. sec. 36, tp. 68, R. V, W. 4 M., ground	2,307
N.E. cor. sec. 36, tp. 68, R. VI, W. 4 M., ground	2,341
N.E. cor. sec. 36, tp. 68, R. VII, W. 4 M., ground	2,163
N.E. cor. sec. 36, tp. 68, R. VIII, W. 4 M., ground	2,048
N. bdy. sec. 35, tp. 68, R. VIII, W. 4 M., Sand river	1,928
N.E. cor. sec. 36, tp. 68, R. IX, W. 4 M., ground	2,362
N. bdy. sec. 31, tp. 68, R. IX, W. 4 M., summit	2,655
N.E. cor. sec. 36, tp. 68, R. X, W. 4 M., ground	2,582
N.E. cor. sec. 36, tp. 68, R. XI, W. 4 M., ground	2,125
N. bdy. sec. 34, tp. 68, R. XI, W. 4 M., MacMurray Road crossing	2,059
N.E. cor. sec. 36, tp. 68, R. XII, W. 4 M., ground	1,943
N. bdy. sec. 31, tp. 68, R. XII, W. 4 M., ground	1,947
N.E. cor. sec. 36, tp. 68, R. XIII, W. 4 M., Square lake	1,902

19th Base, West of Fourth Meridian

N.E. cor. sec. 36, tp. 72, R. I, W. 4 M., ground	2,198
N.E. cor. sec. 36, tp. 72, R. II, W. 4 M., ground	2,321
N.E. cor. sec. 36, tp. 72, R. III, W. 4 M., ground	2,311
N.E. cor. sec. 36, tp. 72, R. IV, W. 4 M., ground	2,277
N.E. cor. sec. 36, tp. 72, R. V, W. 4 M., ground	2,309
N.E. cor. sec. 36, tp. 72, R. VI, W. 4 M., ground	2,321
N.E. cor. sec. 36, tp. 72, R. VII, W. 4 M., ground	2,412

20th Base, West of Fourth Meridian

N.E. cor. sec. 36, tp. 76, R. I, W. 4 M., ground	1,915
N. bdy. sec. 33, tp. 76, R. I, W. 4 M., Dillon river	1,904
N.E. cor. sec. 36, tp. 76, R. II, W. 4 M., ground	2,014
N.E. cor. sec. 35, tp. 76, R. III, W. 4 M., ground	1,990
N. bdy. sec. 32, tp. 76, R. III, W. 4 M., Winifred river	1,857
N.E. cor. sec. 36, tp. 76, R. IV, W. 4 M., ground	1,891
N.E. cor. sec. 36, tp. 76, R. V, W. 4 M., ground	1,886
N.E. cor. sec. 36, tp. 76, R. VI, W. 4 M., ground	1,875
N. bdy. sec. 35, tp. 76, R. VI, W. 4 M., Christina lake	1,819
N.E. cor. sec. 36, tp. 76, R. VII, W. 4 M., ground	1,853
N.E. cor. sec. 36, tp. 76, R. VIII, W. 4 M., ground	1,881
N.E. cor. sec. 36, tp. 76, R. IX, W. 4 M., ground	2,041
N. bdy. sec. 34, tp. 76, R. IX, W. 4 M., branch of Christina river	2,081

BASE AND MERIDIAN LINES SURVEYOR GENERAL'S BRANCH

Elevation
above mean
sea level

20th Base, West of Fourth Meridian

930	N. bdy. sec. 36, tp. 76, R. X, W. 4 M., May river	
968	N.E. cor. sec. 34, tp. 76, R. X, W. 4 M., ground	2,023
930	N.E. cor. sec. 36, tp. 76, R. XI, W. 4 M., ground	2,216
878	N.E. cor. sec. 36, tp. 76, R. XII, W. 4 M., ground	2,215
856	N.E. cor. sec. 36, tp. 76, R. XIII, W. 4 M., ground	2,167
850	N.E. cor. sec. 36, tp. 76, R. XIV, W. 4 M., ground	2,277
734	N. bdy. sec. 34, tp. 76, R. XIV, W. 4 M., House river	2,198
698	N.E. cor. sec. 36, tp. 76, R. XV, W. 4 M., ground	2,074
695	N.E. cor. sec. 36, tp. 76, R. XVI, W. 4 M., ground	2,213
	N.E. cor. sec. 36, tp. 76, R. XVII, W. 4 M., ground	2,348
	N.E. cor. sec. 36, tp. 76, R. XVIII, W. 4 M., ground	2,206
	N. bdy. sec. 31, tp. 76, R. XVIII, W. 4 M., Athabaska river	1,975
	N.E. cor. sec. 36, tp. 76, R. XIX, W. 4 M., ground	1,502
	N.E. cor. sec. 36, tp. 76, R. XX, W. 4 M., ground	1,852
	N.E. cor. sec. 35, tp. 76, R. XXI, W. 4 M., ground	1,871
	N.E. cor. sec. 35, tp. 76, R. XXII, W. 4 M., ground	2,415
	N. bdy. sec. 32, tp. 76, R. XXII, W. 4 M., creek	2,357
	N.E. cor. sec. 36, tp. 76, R. XXIII, W. 4 M., ground	2,360
	N.E. cor. sec. 36, tp. 76, R. XXIV, W. 4 M., ground	2,779
	N.E. cor. sec. 36, tp. 76, R. XXV, W. 4 M., ground	2,638
	N.E. cor. sec. 36, tp. 76, R. XXVI, W. 4 M., ground	2,948
	N.W. cor. sec. 32, tp. 76, R. XXVI, W. 4 M., ground	2,808
		2,871

21st Base, West of Fourth Meridian

	N.E. cor. sec. 36, tp. 80, R. II..	
	Winefred river	1,672
	N.E. cor. sec. 36, tp. 80, R. III.	1,489
	Cowper creek	1,580
	N.E. cor. sec. 36, tp. 80, R. IV.	1,456
	N.E. cor. sec. 36, tp. 80, R. V.	1,460
	Christina river	1,451
	N.E. cor. sec. 36, tp. 80, R. VI.	1,440
	N.E. cor. sec. 36, tp. 80, R. VII.	1,563
	N.E. cor. sec. 36, tp. 80, R. VIII.	1,670
	N. bdy. sec. 32, tp. 80, R. VIII.	2,165
	N.E. cor. tp. 80, R. IX.	2,405
	East branch Christina river	2,380
	N.E. cor. tp. 80, R. X.	2,276
	N.E. cor. tp. 80, R. XI.	2,280
	West branch Christina river	2,269
	N.E. cor. tp. 80, R. XII.	2,227
	N. bdy. sec. 33, tp. 80, R. XII, summit	2,294
	House river	2,365
	N.E. cor. tp. 80, R. XIII.	2,299
	N.E. cor. tp. 80, R. XIV.	2,307
	Dropoff creek	2,224
	N.E. cor. tp. 80, R. XV.	2,123
	N.E. cor. tp. 80, R. XVI.	1,917
	House river	1,877
	N.E. cor. tp. 80, R. XVII.	1,585
	Athabaska river	1,792
	N.E. cor. tp. 80, R. XVIII.	1,300
	N.E. cor. sec. 31, tp. 80, R. XVIII.	1,782
	N.E. cor. sec. 36, tp. 80, R. XX.	1,868
		1,905

BASE AND MERIDIAN LINES—SURVEYOR GENERAL'S BRANCH

Elevation
above mean
sea level

21st Base, West of Fourth Meridian

N.E. cor. sec. 31, tp. 80, R. XX.....	1,900
N.E. cor. sec. 31, tp. 80, R. XXI.....	1,971
N.E. cor. sec. 31, tp. 80, R. XXII.....	1,928
N.E. cor. sec. 36, tp. 80, R. XXIV.....	1,970
N.E. cor. sec. 36, tp. 80, R. XXV.....	1,869
N.E. cor. sec. 32, tp. 30, R. XXV.....	1,807

22nd Base, West of Fourth Meridian

N.E. cor. sec. 36, tp. 84, R. I, W. 4 M., Carson lake, (Feb., 1913).....	1,535
N. bdy. sec. 34, tp. 84, R. I, W. 4 M., ground.....	1,542
N. bdy. sec. 32, tp. 84, R. I, W. 4 M., ground.....	613
N.E. cor. sec. 36, tp. 84, R. II, W. 4 M., ground.....	1,504
N.E. cor. sec. 36, tp. 84, R. III, W. 4 M., ground.....	1,501
N. bdy. sec. 33, tp. 84, R. III, W. 4 M., creek.....	1,493
N.E. cor. sec. 36, tp. 84, R. IV, W. 4 M., ground.....	1,547
N.E. cor. sec. 35, tp. 84, R. IV, W. 4 M., ground (summit).....	1,691
N. bdy. sec. 33-84-IV, Christina river, water (April, 1913).....	1,359
N.E. cor. sec. 31, tp. 84, R. IV, W. 4 M., ground (summit).....	1,523
N.E. cor. sec. 36, tp. 84, R. V, W. 4 M., ground.....	1,418
N. bdy. sec. 36, tp. 84, R. V, W. 4 M., Hay river.....	1,413
N. bdy. sec. 33, tp. 84, R. V, W. 4 M., ground (summit).....	1,564
N. bdy. sec. 32, tp. 84, R. V, W. 4 M., George creek.....	1,472
N.E. cor. sec. 36, tp. 84, R. VI, W. 4 M., ground.....	1,545
N. bdy. sec. 34, tp. 84, R. VI, W. 4 M., ground (summit).....	1,605
N.E. cor. sec. 36, tp. 84, R. VII, W. 4 M., ground.....	1,512
N. bdy. sec. 36, tp. 84, R. VII, W. 4 M., Little Christina river.....	1,523
N. bdy. sec. 34, tp. 84, R. VII, W. 4 M., lake.....	1,582
N. bdy. sec. 33, tp. 84, R. VII, W. 4 M., creek.....	1,642
N.E. cor. sec. 36, tp. 84, R. VIII, W. 4 M., ground.....	2,114
N. bdy. sec. 35, tp. 84, R. VIII, W. 4 M., ground (summit).....	2,447
N. bdy. sec. 33, tp. 84, R. VIII, W. 4 M., river.....	2,151
N.E. cor. sec. 36, tp. 84, R. IX, W. 4 M., ground.....	2,416
N. bdy. sec. 35, tp. 84, R. IX, W. 4 M., ground (summit).....	2,414
N.E. cor. sec. 36, tp. 84, R. X, W. 4 M., ground.....	2,159
N.E. cor. sec. 36, tp. 84, R. XI, W. 4 M., ground.....	1,858
N.E. cor. sec. 36, tp. 84, R. XII, W. 4 M., ground.....	1,753
N. bdy. sec. 36, tp. 84, R. XII, W. 4 M., tributary of Horse river.....	1,708
N.E. cor. sec. 36, tp. 84, R. XIII, W. 4 M., ground (summit).....	1,831
N.E. cor. sec. 36, tp. 84, R. XIV, W. 4 M., ground.....	1,776
N. bdy. sec. 33, tp. 84, R. XIV, W. 4 M., Horse river.....	1,677
N. bdy. sec. 31, tp. 84, R. XIV, W. 4 M., road crossing (Horse river to McMurray).....	1,739
N.E. cor. sec. 35, tp. 84, R. XV, W. 4 M., ground.....	1,734
N. bdy. sec. 34, tp. 84, R. XV, W. 4 M., East branch Algar river.....	1,727
N.E. cor. sec. 31, tp. 84, R. XV, W. 4 M., ground.....	1,720
N. bdy. sec. 36, tp. 84, R. XVI, W. 4 M., West branch Algar river.....	1,710
N.E. cor. sec. 36, tp. 84, R. XVII, W. 4 M., ground.....	1,683
N. bdy. sec. 34, tp. 84, R. XVII, ground, east bank, valley of Athabaska river.....	1,674
N. bdy. sec. 33, tp. 84, R. XVII, W. 4 M., ground.....	1,275
N. bdy. sec. 33, tp. 84, R. XVII, W. 4 M., Athabaska river, water (July, 1913).....	1,227
N.E. cor. sec. 32, tp. 84, R. XVII, W. 4 M., ground.....	1,612
N.E. cor. sec. 36, tp. 84, R. XVIII, W. 4 M., ground.....	1,674
N. bdy. sec. 33, tp. 84, R. XVIII, W. 4 M., ground.....	1,841
N.E. cor. sec. 36, tp. 84, R. XIX, W. 4 M., ground.....	1,912
N.E. cor. sec. 36, tp. 84, R. XX, W. 4 M., ground.....	2,022

ALBERTA

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BASE AND MERIDIAN LINES—SURVEYOR GENERAL'S BRANCH

Elevation
above mean
sea level

22nd Base, West of Fourth Meridian

N.E. cor. sec. 36, tp. 84, R. XXI.....	2,022
N.E. cor. sec. 35, tp. 84, R. XXI.....	2,048
Wood Buffalo river.....	1,992
N.E. cor. sec. 36, tp. 84, R. XXII.....	1,990
N.E. cor. sec. 36, tp. 84, R. XXIII.....	1,915
N.E. cor. sec. 36, tp. 84, R. XXIV.....	1,865
Lake.....	1,856
Wabiskaw river.....	1,734
N.E. cor. sec. 36, tp. 84, R. XXV.....	1,777
N.E. cor. sec. 36, tp. 84, R. XXVI.....	1,896

23rd Base, West of Fourth Meridian

N.E. cor. sec. 36, tp. 88, R. I, W. 4 M., ground.....	1,608
N.E. cor. sec. 36, tp. 88, R. II, W. 4 M., ground.....	1,435
N.E. cor. sec. 36, tp. 88, R. III, W. 4 M., ground.....	1,539
N. bdy. sec. 34, tp. 88, R. III, W. 4 M., Edwin river.....	1,081
N.E. cor. sec. 36, tp. 88, R. IV, W. 4 M., ground.....	1,544
N.E. cor. sec. 36, tp. 88, R. V, W. 4 M., ground.....	1,524
N. bdy. sec. 36, tp. 88, R. VI, W. 4 M., ground.....	851
N. bdy. sec. 36, tp. 88, R. VI, W. 4 M., Clearwater river.....	840
N.E. cor. sec. 36, tp. 88, R. VII, W. 4 M., ground.....	1,409
N.E. cor. sec. 36, tp. 88, R. VIII, W. 4 M., ground.....	929
N. bdy. sec. 33, tp. 88, R. VIII, W. 4 M., Clearwater river.....	804
N.E. cor. sec. 36, tp. 88, R. IX, W. 4 M., ground.....	806
N. bdy. sec. 34, tp. 88, R. IX, W. 4 M., Hangingstone creek.....	921
N. bdy. sec. 31, tp. 88, R. IX, W. 4 M., Horse river.....	901
N.E. cor. sec. 36, tp. 88, R. X, W. 4 M., ground.....	192
N. bdy. sec. 34, tp. 88, R. X, W. 4 M., Athabaska river.....	817
N.E. cor. sec. 36, tp. 88, R. XI, W. 4 M., ground.....	1,298
N.E. cor. sec. 36, tp. 88, R. XII, W. 4 M., ground.....	1,499
N.E. cor. sec. 36, tp. 88, R. XIII, W. 4 M., ground.....	1,588
N.E. cor. sec. 36, tp. 88, R. XIV, W. 4 M., ground.....	1,624
N.E. cor. sec. 36, tp. 88, R. XV, W. 4 M., ground.....	1,662
N.E. cor. sec. 36, tp. 88, R. XVI, W. 4 M., ground.....	1,745
N.E. cor. sec. 36, tp. 88, R. XVII, W. 4 M., ground.....	1,625
N.E. cor. sec. 36, tp. 88, R. XVIII, W. 4 M., ground.....	1,585
N.E. cor. sec. 36, tp. 88, R. XIX, W. 4 M., ground.....	1,630
N.E. cor. sec. 36, tp. 88, R. XX, W. 4 M., ground.....	1,681
N. bdy. sec. 36, tp. 88, R. XX, W. 4 M., McKay river.....	1,667
N. bdy. sec. 31, tp. 88, R. XX, W. 4 M., small lake.....	1,697
N.E. cor. sec. 36, tp. 88, R. XXI, W. 4 M., ground.....	1,725
N.E. cor. sec. 36, tp. 88, R. XXII, W. 4 M., ground.....	1,696
N.E. cor. sec. 36, tp. 88, R. XXIII, W. 4 M., ground.....	1,699
N. bdy. sec. 34, tp. 88, R. XXIII, W. 4 M., Wabiskaw river.....	1,606
N.E. cor. sec. 36, tp. 88, R. XXIV, W. 4 M., ground.....	1,683
N.E. cor. sec. 36, tp. 88, R. XXV, W. 4 M., ground.....	2,013
N.E. cor. sec. 36, tp. 88, R. XXVI, W. 4 M., ground.....	2,312

24th Base, West of Fourth Meridian

N.E. cor. sec. 36, tp. 92, R. I, W. 4 M., ground.....	1,752
N.E. cor. sec. 36, tp. 92, R. II, W. 4 M., ground.....	1,864
N. bdy. sec. 31, tp. 92, R. II, W. 4 M., stream.....	1,625
N.E. cor. sec. 36, tp. 92, R. III, W. 4 M., ground.....	1,634

BASE AND MERIDIAN LINES—SURVEYOR GENERAL'S BRANCH

Elevation
above mean
sea level

N.E. cor. sec. 36, tp. 92, R. IV, W. 4 M., ground.....	2,067
N.E. cor. sec. 36, tp. 92, R. V, W. 4 M., ground.....	2,126
N. bdy. sec. 31, tp. 92, R. V, W. 4 M., stream.....	1,770
N.E. cor. sec. 36, tp. 92, R. VI, W. 4 M., ground.....	1,797
N.E. cor. sec. 33, tp. 92, R. VI, W. 4 M., ground.....	1,875
N.E. cor. sec. 36, tp. 92, R. VII.....	1,691
N. bdy. sec. 34, tp. 92, R. VII, Steepbank river.....	1,618
N. bdy. sec. 36, tp. 92, R. VIII.....	1,577
N. bdy. sec. 36, tp. 92, R. IX.....	1,268
N. bdy. sec. 36, tp. 92, R. X.....	1,053
N. bdy. sec. 35, tp. 92, R. X, Athabaska river.....	772
N.E. cor. sec. 36, tp. 92, R. XI.....	1,022
N. bdy. sec. 36, tp. 92, R. XI, Beaver river.....	963
N.E. cor. sec. 36, tp. 92, R. XII.....	1,156

25th Base, West of Fourth Meridian

N. bdy. sec. 34, tp. 96, R. I, North branch Firebag river.....	1,592
N. bdy. sec. 33, tp. 96, R. I, North branch Firebag river.....	1,577
N.E. cor. sec. 36, tp. 96, R. II.....	1,595
N.E. cor. sec. 36, tp. 96, R. III, small lake.....	1,611
N.E. cor. sec. 36, tp. 96, R. IV.....	1,521
N. bdy. sec. 33, tp. 96, R. IV, Firebag river.....	1,403
N.E. cor. sec. 36, tp. 96, R. V.....	1,411
N.E. cor. sec. 36, tp. 96, R. VI.....	1,267
N.E. cor. sec. 36, tp. 96, R. VII.....	1,257
N.E. cor. sec. 36, tp. 96, R. VIII.....	1,060
N. bdy. sec. 35, tp. 96, R. VIII, South branch Muskeg river.....	1,005
N. bdy. sec. 31, tp. 96, R. VIII, Muskeg river.....	953
N.E. cor. sec. 36, tp. 96, R. IX.....	962
N.E. cor. sec. 36, tp. 96, R. X.....	1,149
N.E. cor. sec. 36, tp. 96, R. XI.....	953
N. bdy. sec. 35, tp. 68, R. XI, Athabaska river.....	761
N. bdy. sec. 35, tp. 68, R. XII.....	1,034
N. bdy. sec. 31, tp. 68, R. XII, Tar river.....	1,278
N.E. cor. sec. 36, tp. 68, R. XIII.....	1,382

Athabaska Landing to Fifth Meridian, along Athabaska River

Canadian Northern Ry., 12 telegraph poles south of crossing of Tawatinaw river.....	1,709-18
8 telegraph poles south of Canadian Northern Ry. crossing of Tawatinaw river.....	1,697-84
Nail, S. cor. of log house, on S.W. bank, about 1½ miles above Athabaska.....	1,688-0
Nail, E. cor. of Dumont's house, about 9 miles above Athabaska.....	1,720-44
Nail, S.E. cor. of house, about 13 miles above Athabaska.....	1,712-08
Nail in spruce stump, 65 ft. S. of White's stable, 21 miles above Athabaska.....	1,733-42
Nail in S.W. cor. of Jacknife's house, 23 miles above Athabaska.....	1,737-48
Nail in W. wall of Longview house, 30 miles above Athabaska.....	1,747-08
Nail in N.W. cor. of 3rd house, old Indian settlement, 37 miles above Athabaska.....	1,765-27
Nail in S.W. cor. of house, Tomato Creek stopping place.....	1,762-00
Nail in N.E. cor. of house, N.E. bank, at Moose portage.....	1,814-00
In stump, 66 ft. N. of water's edge and 5 ft. E. of 5th meridian.....	1,821-00

Fifth Meridian

E. bdy. sec. 25, tp. 71, R. I, W. 5 M., Athabaska river.....	1,798
N.E. cor. sec. 36, tp. 71, R. I, W. 5 M., ground.....	2,083
N.E. cor. sec. 36, tp. 72, R. I, W. 5 M., lake Peter.....	2,084

Elevation
above mean
sea level

BASE AND MERIDIAN LINES—SURVEYOR GENERAL'S BRANCH

Elevation
above mean
sea level

Fifth Meridian

2,067	S.E. cor. sec. 12, tp. 73, R. 1, W. 5 M., Fawcett lake...	2,001
2,126	E. bdy. sec. 25, tp. 73, R. 1, W. 5 M., Howard lake...	2,018
1,770	N.E. cor. sec. 36, tp. 73, R. 1, W. 5 M., ground...	2,121
1,797	N.E. cor. sec. 36, tp. 74, R. 1, W. 5 M., ground...	2,521
1,875	N.E. cor. sec. 25, tp. 75, R. 1 (summit)	3,113
1,691	N.E. cor. sec. 36, tp. 75, R. 1, W. 5 M., ground...	2,981
1,618	N.E. cor. sec. 36, tp. 76, R. 1, W. 5 M., ground...	2,871
1,577	E. bdy. sec. 13, tp. 77, R. 1, W. 5 M., creek...	2,281
1,268	N.F. cor. sec. 36, tp. 77, R. 1, W. 5 M., ground...	2,072
1,053	E. bdy. sec. 25, tp. 78, R. 1, W. 5 M., Willow river	1,876
772	N.E. cor. sec. 36, tp. 78, R. 1, W. 5 M., ground...	1,934
1,022	N.E. cor. sec. 36, tp. 79, R. 1, W. 5 M., ground...	1,857
963	N.E. cor. sec. 36, tp. 80, R. 1, W. 5 M., ground...	1,874
1,156	N.E. cor. sec. 36, tp. 81, R. 1, W. 5 M., ground...	1,845
	E. bdy. sec. 25, tp. 82, R. 1, W. 5 M., stream...	1,805
1,592	N.E. cor. sec. 36, tp. 82, R. 1, W. 5 M., ground...	1,809
1,577	E. bdy. sec. 1, tp. 83, R. 1, W. 5 M., Muskwa river	1,771
1,595	N.E. cor. sec. 36, tp. 83, R. 1, W. 5 M., ground...	1,851
1,611	N.E. cor. sec. 36, tp. 84, R. 1, W. 5 M., ground...	1,982
1,521	N.E. cor. sec. 25, tp. 85, R. 1, W. 5 M., Teepee lake	2,016
1,403	N.E. cor. sec. 36, tp. 85, R. 1, W. 5 M., ground...	2,060
1,411	N.E. cor. sec. 36, tp. 86, R. 1, W. 5 M., ground...	2,170
1,267	N.E. cor. sec. 36, tp. 87, R. 1, W. 5 M., ground...	2,191
1,257	E. bdy. sec. 1, tp. 88, R. 1, W. 5 M., Woodenhouse river	2,152
1,060	E. bdy. sec. 24, tp. 88, R. 1, W. 5 M., Corn creek...	2,160
1,005	N.E. cor. sec. 36, tp. 88, R. 1, W. 5 M., ground...	2,312
953	N.E. cor. sec. 36, tp. 89, R. 1, W. 5 M., ground...	1,961
962	N.E. cor. sec. 36, tp. 90, R. 1, W. 5 M., ground...	1,797
1,149	E. bdy. sec. 1, tp. 91, R. 1, W. 5 M., Wabiskaw river...	1,585
953	N.E. cor. sec. 36, tp. 91, R. 1, W. 5 M., ground...	1,790
761	E. bdy. sec. 1, tp. 92, R. 1, W. 5 M., House creek...	1,763
1,034	N.E. cor. sec. 36, tp. 92, R. 1, W. 5 M., ground...	1,982
1,278	N.E. cor. sec. 36, tp. 93, R. 1, W. 5 M., ground...	2,372
1,382	N.E. cor. sec. 36, tp. 94, R. 1, W. 5 M., ground...	2,444
	E. bdy. sec. 1, tp. 95, R. 1, W. 5 M., Hay creek...	2,416
	N.E. cor. sec. 36, tp. 95, R. 1, W. 5 M., ground...	2,650
1,709-18	E. bdy. sec. 13, tp. 96, R. 1, W. 5 M., Panny river	2,337
1,697-54	N.E. cor. sec. 36, tp. 96, R. 1, W. 5 M., ground...	2,280
1,688-00	E. bdy. sec. 24, tp. 97, R. 1, W. 5 M., Sputina river	2,090
1,720-04	E. bdy. sec. 25, tp. 97, R. 1, W. 5 M., creek...	2,076
1,712-08	N.E. cor. sec. 36, tp. 97, R. 1, W. 5 M., ground...	2,110
1,733-37	N.E. cor. sec. 36, tp. 98, R. 1, W. 5 M., ground...	1,837
1,737-48	E. bdy. sec. 12, tp. 99, R. 1, W. 5 M., Mikkwa river, high water...	1,718
1,747-00	E. bdy. sec. 13, tp. 99, R. 1, W. 5 M., creek...	1,774
1,765-27	E. bdy. sec. 25, tp. 99, R. 1, W. 5 M., branch of Mikkwa river, high water	1,815
1,762-00	N.E. cor. sec. 36, tp. 99, R. 1, W. 5 M., ground...	1,882
1,814-00	N.E. cor. sec. 36, tp. 100, R. 1, W. 5 M., ground...	1,617
1,821-00	E. bdy. sec. 25, tp. 101, R. 1, W. 5 M., Burnt river	1,393
	N.E. cor. sec. 36, tp. 101, R. 1, W. 5 M., ground...	1,384
	N.E. cor. sec. 36, tp. 102, R. 1, W. 5 M., ground...	1,209
	N.E. cor. sec. 36, tp. 103, R. 1, W. 5 M., ground...	1,038
	E. bdy. sec. 1, tp. 104, R. 1, W. 5 M., Birch river	919
1,798	N.F. cor. sec. 36, tp. 104, R. 1, W. 5 M., ground...	899
2,083	N.E. cor. sec. 36, tp. 105, R. 1, W. 5 M., ground...	815
2,084	N.E. cor. sec. 36, tp. 106, R. 1, W. 5 M., ground...	791

BASE AND MERIDIAN LINES—SURVEYOR GENERAL'S BRANCH

Elevation
above mean
sea level

Fifth Meridian

N.E. cor. sec. 36, tp. 107, R. I, W. 5 M., ground.....	801
E. bdy. sec. 36, tp. 108, R. I, W. 5 M., ground.....	835
N.E. cor. sec. 36, tp. 109, R. I, W. 5 M., ground.....	825
N.E. cor. sec. 36, tp. 110, R. I, W. 5 M., ground.....	769
N.E. cor. sec. 36, tp. 111, R. I, W. 5 M., ground.....	777
N.E. cor. sec. 36, tp. 112, R. I, W. 5 M., ground.....	815

21st Base, West of Fifth Meridian

Wabiskaw (1.5 miles E. of fifth meridian), 350 ft. S.E. of Revillon's store, ground..	1,794
North Wabiskaw lake, water.....	1,787
N.E. cor. sec. 36, tp. 80, R. I, W. 5 M., ground (5 mer.).....	1,874
N. bdy. sec. 32, tp. 80, R. I, W. 5 M., Long lake.....	1,875
N.E. cor. sec. 36, tp. 80, R. II, W. 5 M., ground.....	1,918
N.E. cor. sec. 36, tp. 80, R. III, W. 5 M., ground.....	2,029
N. bdy. sec. 33, tp. 80, R. III, W. 5 M., Patecho river.....	1,890
N.E. cor. sec. 36, tp. 80, R. IV, W. 5 M., ground.....	1,910
N.E. cor. sec. 36, tp. 80, R. V, W. 5 M., ground.....	2,027
N.E. cor. sec. 36, tp. 80, R. VI, W. 5 M., ground.....	2,117
N. bdy. sec. 34, tp. 80, R. VI, W. 5 M., Nipisi river.....	2,044
N. bdy. sec. 33, tp. 80, R. VI, W. 5 M., lake.....	2,090
N. bdy. sec. 32, tp. 80, R. VI, W. 5 M., ground (approx.).....	2,098
N. bdy. sec. 33, tp. 80, R. VII, W. 5 M., lake.....	2,126
N.E. cor. sec. 36, tp. 80, R. VIII, W. 5 M., ground (approx.).....	2,178
N. bdy. sec. 33, tp. 80, R. IX, W. 5 M., Atikamek river.....	2,094
N.E. cor. sec. 36, tp. 80, R. X, W. 5 M., ground.....	2,124
N.E. cor. sec. 36, tp. 80, R. XI, W. 5 M., lake.....	2,151
N.E. cor. sec. 36, tp. 80, R. XII, W. 5 M., ground.....	2,322
N.E. cor. sec. 36, tp. 80, R. XIII, W. 5 M., ground.....	2,273
N.E. cor. sec. 36, tp. 80, R. XIV, W. 5 M., ground.....	2,241
N. bdy. sec. 35, tp. 80, R. XIV, W. 5 M., South Heart river.....	2,141
N.E. cor. sec. 36, tp. 80, R. XV, W. 5 M., ground.....	2,295
N.E. cor. sec. 36, tp. 80, R. XVI, W. 5 M., ground.....	2,270
N.E. cor. sec. 36, tp. 80, R. XVII, W. 5 M., ground.....	2,378
N.E. cor. sec. 36, tp. 80, R. XVIII, W. 5 M., ground.....	2,412
N.E. cor. sec. 36, tp. 80, R. XIX, W. 5 M., ground.....	2,204

22nd Base, West of Fifth Meridian

N.E. cor. sec. 36, tp. 84, R. I, W. 5 M., ground.....	1,982
N.E. cor. sec. 36, tp. 84, R. II, W. 5 M., ground.....	2,069
N.E. cor. sec. 36, tp. 84, R. III, W. 5 M., ground.....	2,169
N.E. cor. sec. 36, tp. 84, R. IV, W. 5 M., ground.....	2,211
N. bdy. sec. 33, tp. 84, R. V, W. 5 M., Trout river.....	2,049
N. bdy. sec. 36, tp. 84, R. V, W. 5 M., ground.....	2,295
N.E. cor. sec. 36, tp. 84, R. VI, W. 5 M., ground.....	2,183
N. bdy. sec. 32, tp. 84, R. VI, W. 5 M., Shoal river.....	1,977
N.E. cor. sec. 36, tp. 84, R. VII, W. 5 M., ground.....	2,030
N.E. cor. sec. 36, tp. 84, R. VIII, W. 5 M., ground.....	1,953
N.E. cor. sec. 36, tp. 84, R. IX, W. 5 M., ground.....	2,002
N.E. cor. sec. 36, tp. 84, R. X, W. 5 M., ground.....	1,796
N. bdy. sec. 34, tp. 84, R. X, W. 5 M., creek.....	1,729
N. bdy. sec. 36, tp. 84, R. XI, W. 5 M., ground.....	1,787
N.E. cor. sec. 36, tp. 84, R. XII, W. 5 M., ground.....	1,822
N.E. cor. sec. 36, tp. 84, R. XIII, W. 5 M., ground.....	1,829
N. bdy. sec. 1, tp. 85, R. XIII, W. 5 M., Lubicon lake.....	1,817
N.E. cor. sec. 36, tp. 84, R. XIV, W. 5 M., ground.....	1,931

BASE AND MERIDIAN LINES—SURVEYOR GENERAL'S BRANCH

Elevation
above mean
sea level

22nd Base, West of Fifth Meridian

N.E. cor. sec. 36, tp. 84, R. XV, W. 5 M., ground.....	2,055
N.E. cor. sec. 36, tp. 84, R. XVI, W. 5 M., ground.....	2,192
N. bdy. sec. 36, tp. 84, R. XVII, W. 5 M., ground.....	2,225
N. bdy. sec. 36, tp. 84, R. XVIII, W. 5 M., ground.....	2,223
N.E. cor. sec. 36, tp. 84, R. XIX, W. 5 M., ground.....	2,036
N.E. cor. sec. 36, tp. 84, R. XX, W. 5 M., ground.....	1,946
N.E. cor. sec. 32, tp. 84, R. XX, W. 5 M., ground.....	1,734
N.E. cor. sec. 31, tp. 84, R. XX, W. 5 M., ground.....	1,708
N. bdy. sec. 31, tp. 84, R. XX, W. 5 M., ground.....	1,538
N. bdy. sec. 31, tp. 84, R. XX, W. 5 M., creek.....	1,246
Peace river, water.....	1,011

23rd Base, West of Fifth Meridian

N.E. cor. sec. 36, tp. 88, R. I, W. 5 M., ground.....	2,312
N. bdy. sec. 34, tp. 88, R. I, W. 5 M., lake.....	2,419
N.E. cor. sec. 36, tp. 88, R. II, W. 5 M., ground.....	2,536
N.E. cor. sec. 36, tp. 88, R. III, W. 5 M., ground.....	2,397
N.E. cor. sec. 35, tp. 88, R. III, W. 5 M., Quitting lake.....	2,327
N.E. cor. sec. 36, tp. 88, R. IV, W. 5 M., ground.....	2,655
N.E. cor. sec. 36, tp. 88, R. V, W. 5 M., ground.....	2,299
N.E. cor. sec. 34, tp. 88, R. V, W. 5 M., Peerless lake.....	2,272
N.E. cor. sec. 36, tp. 88, R. VI, W. 5 M., ground.....	2,383
N. bdy. sec. 33, tp. 88, R. VI, W. 5 M., river.....	2,175
N.E. cor. sec. 36, tp. 88, R. VII, W. 5 M., ground.....	2,083
N. bdy. sec. 35, tp. 88, R. VII, W. 5 M., creek.....	2,023
N.E. cor. sec. 36, tp. 88, R. VIII, W. 5 M., ground.....	1,941
N.E. cor. sec. 36, tp. 88, R. IX, W. 5 M., ground.....	1,679
N. bdy. sec. 36, tp. 88, R. IX, W. 5 M., Loon river.....	1,631
N.E. cor. sec. 36, tp. 88, R. X, W. 5 M., ground.....	1,713
N. bdy. sec. 32, tp. 88, R. X, W. 5 M., creek.....	1,845
N.E. cor. sec. 36, tp. 88, R. XI, W. 5 M., ground.....	1,917
N.E. cor. sec. 36, tp. 88, R. XII, W. 5 M., ground.....	2,211
N.E. cor. sec. 36, tp. 88, R. XIII, W. 5 M., ground.....	2,429
N. bdy. sec. 33, tp. 88, R. XIII, W. 5 M., Otter lake.....	2,299
N.E. cor. sec. 36, tp. 88, R. XIV, W. 5 M., ground.....	2,346
N.E. cor. sec. 36, tp. 88, R. XV, W. 5 M., ground.....	2,301
N. bdy. sec. 32, tp. 88, R. XV, W. 5 M., Otter river.....	2,164
N.E. cor. sec. 36, tp. 88, R. XVI, W. 5 M., ground.....	2,185
N.E. cor. sec. 36, tp. 88, R. XVII, W. 5 M., ground.....	2,161
N.E. cor. sec. 36, tp. 88, R. XVIII, W. 5 M., ground.....	2,164
N.E. cor. sec. 36, tp. 88, R. XIX, W. 5 M., ground.....	1,919
N. bdy. sec. 31, tp. 88, R. XIX, W. 5 M., Little Cadotte river.....	1,504
N.E. cor. sec. 36, tp. 88, R. XX, W. 5 M., ground.....	1,514
N. bdy. sec. 34, tp. 88, R. XX, W. 5 M., ground.....	1,414
N. bdy. 33-88-XX, W. 5 M., junction of Big and Little Cadotte rivers.....	1,214
4 miles N. of N. bdy. of tp. 88, W. 5 M., junction of Peace and Cadotte rivers.....	980
N.E. cor. sec. 36, tp. 88, R. XXI, W. 5 M., slope, east side of valley.....	1,233
N. bdy. sec. 35, tp. 88, R. XXI, W. 5 M., bottom of valley, west side.....	1,009
N. bdy. sec. 34, tp. 88, R. XXI, W. 5 M., top of valley, west side.....	1,670
N.E. cor. sec. 36, tp. 88, R. XXII, W. 5 M., ground.....	1,738
N.E. cor. sec. 36, tp. 88, R. XXIII, W. 5 M., ground.....	1,925
N.E. cor. sec. 36, tp. 88, R. XXIV, W. 5 M., ground.....	2,140
N.E. cor. sec. 36, tp. 88, R. XXV, W. 5 M., ground.....	2,193
N. bdy. sec. 33, tp. 88, R. XXV, W. 5 M., small lake (source of Battle river).....	2,274
N.E. cor. sec. 36, tp. 88, R. I, W. 5 M., ground (near 6th mer.).....	2,288

BASE AND MERIDIAN LINES—SURVEYOR GENERAL'S BRANCH

Elevation
above mean
sea level

24th Base, West of Fifth Meridian

N.E. cor. sec. 36, tp. 92, R. XIX.....	1,762
N.E. cor. sec. 36, tp. 92, R. XX.....	1,613
N.E. cor. sec. 36, tp. 92, R. XXI, Peace river.....	937
N.E. cor. sec. 36, tp. 92, R. XXII.....	1,540

25th Base, West of Fifth Meridian

N. bdy. sec. 35, tp. 96, R. XVIII, Wolverine river.....	1,356
N.E. cor. sec. 36, tp. 96, R. XIX.....	1,423
N.E. cor. sec. 36, tp. 96, R. XX.....	1,394
N.E. cor. sec. 35, tp. 96, R. XX, Peace river.....	921
N.E. cor. sec. 36, tp. 96, R. XXI.....	1,538
N.E. cor. sec. 36, tp. 96, R. XXII.....	1,951

26th Base, West of Fifth Meridian

N. bdy. sec. 36, tp. 100, R. XVIII, summit.....	1,314
N. bdy. sec. 32, tp. 100, R. XVIII, Wolverine river.....	984
N. bdy. sec. 35, tp. 100, R. XIX, summit.....	1,283
N.E. cor. sec. 36, tp. 100, R. XX.....	920
N. bdy. sec. 36, tp. 100, R. XX, Peace river.....	888
N.E. cor. sec. 36, tp. 100, R. XXI.....	1,233

27th Base, West of Fifth Meridian

N.E. cor. sec. 32, tp. 104, R. IX.....	1,014
N.E. cor. sec. 36, tp. 104, R. X.....	1,017
N.E. cor. sec. 36, tp. 104, R. XI.....	987
N.E. cor. sec. 36, tp. 104, R. XII.....	1,009
N.F. cor. sec. 36, tp. 104, R. XIII.....	1,052
N.E. cor. sec. 36, tp. 104, R. XIV.....	1,063
Bear river.....	1,048
N.E. cor. sec. 36, tp. 104, R. XV.....	1,100
N.E. cor. sec. 36, tp. 104, R. XVI.....	1,114
Peace river.....	857
N.E. cor. sec. 36, tp. 104, R. XVIII.....	1,123
Peace river.....	868
N.E. cor. sec. 36, tp. 104, R. XIX.....	1,031
N.E. cor. sec. 36, tp. 104, R. XX.....	1,165
South branch Boyer river.....	1,121
N.E. cor. sec. 36, tp. 104, R. XXI.....	1,130
N.E. cor. sec. 36, tp. 104, R. XXII.....	1,169
N.E. cor. sec. 33, tp. 104, R. XXII.....	1,209

28th Base, West of Fifth Meridian

33 ft. south of N.E. cor. sec. 36, tp. 108, R. I., W. 5 M., ground.....	835
N. bdy. sec. 36, tp. 108, R. II, W. 5 M., ground.....	853
N. bdy. sec. 35, tp. 108, R. II, W. 5 M., lake.....	832
N.E. cor. sec. 36, tp. 108, R. III, W. 5 M., ground.....	840
N. bdy. sec. 34, tp. 108, R. III, W. 5 M., Fox lake.....	835
N.E. cor. sec. 36, tp. 108, R. IV, W. 5 M., ground.....	855
N. bdy. sec. 33, tp. 108, R. IV, W. 5 M., ground.....	795
N. bd. sec. 33, tp. 108, R. XVIII, Boyer river.....	1,021
N.E. cor. sec. 36, tp. 108, R. XIX.....	1,054

BASE AND MERIDIAN LINES—SURVEYOR GENERAL'S BRANCH

Elevation
above mean
sea level

29th Base, West of Fifth Meridian

N.E. cor. sec. 36, tp. 112, R. I, W. 5 M., ground.....	815
N.E. cor. sec. 36, tp. 112, R. II, W. 5 M., ground.....	960

East Boundary, Range XVIII, West of Fifth Meridian

S.E. cor. sec. 1, tp. 89, R. XVIII.....	2,164
S.E. cor. sec. 1, tp. 90, R. XVIII.....	2,056
E. bdy. sec. 24, tp. 90, R. XVIII, Little Cadotte river.....	2,045
E. bdy. sec. 36, tp. 90, R. XVIII, Jackpine river.....	2,085
S.E. cor. sec. 1, tp. 91, R. XVIII.....	2,099
S.E. cor. sec. 1, tp. 92, R. XVIII.....	2,257
E. bdy. sec. 12, tp. 92, R. XVIII, summit.....	2,309
S.E. cor. sec. 1, tp. 93, R. XVIII.....	2,211
S.E. cor. sec. 1, tp. 94, R. XVIII.....	1,772
E. bdy. sec. 36, tp. 94, R. XVIII, South branch Wolverine river.....	1,552
S.E. cor. sec. 1, tp. 95, R. XVIII.....	1,551
E. bdy. sec. 12, tp. 95, R. XVIII, South branch Wolverine river.....	1,502
E. bdy. sec. 25, tp. 95, R. XVIII, South branch Wolverine river.....	1,455
S.E. cor. sec. 1, tp. 96, R. XVIII.....	1,449
S.E. cor. sec. 1, tp. 97, R. XVIII.....	1,438
S.E. cor. sec. 1, tp. 98, R. XVIII.....	1,414
S.E. cor. sec. 1, tp. 99, R. XVIII.....	1,391
S.E. cor. sec. 13, tp. 99, R. XVIII, South branch Wolverine river.....	1,142
S.E. cor. sec. 1, tp. 100, R. XVIII, Wolverine river.....	1,096
S.E. cor. sec. 1, tp. 101, R. XVIII.....	1,245
S.E. cor. sec. 1, tp. 102, R. XVIII.....	1,319
S.E. cor. sec. 1, tp. 103, R. XVIII.....	1,287
S.E. cor. sec. 1, tp. 104, R. XVIII.....	1,163
S.E. cor. sec. 1, tp. 105, R. XVIII.....	1,123
E. bdy. sec. 1, tp. 105, R. XVIII, Peace river.....	867
E. bdy. sec. 1, tp. 106, R. XVIII.....	1,146
E. bdy. sec. 1, tp. 107, R. XVIII.....	1,098
E. bdy. sec. 1, tp. 108, R. XVIII.....	1,054
E. bdy. sec. 25, tp. 108, R. XVIII, South branch Boyer river.....	1,016
E. bdy. sec. 36, tp. 108, R. XVIII, North branch Boyer river.....	1,006
S.E. cor. sec. 1, tp. 109, R. XVIII.....	1,021

East Boundary Range XXII, West of Fifth Meridian

S.E. cor. sec. 1, tp. 89, R. XXII.....	1,738
S.E. cor. sec. 1, tp. 90, R. XXII.....	1,609
E. bdy. sec. 25, tp. 90, R. XXII, creek.....	1,230
S.E. cor. sec. 1, tp. 91, R. XXII.....	1,555
E. bdy. sec. 24, tp. 91, R. XXII, creek.....	1,212
S.E. cor. sec. 1, tp. 92, R. XXII.....	1,545
S.E. cor. sec. 1, tp. 93, R. XXII.....	1,540

BASE AND MERIDIAN LINES—SURVEYOR GENERAL'S BRANCH

Elevation
above mean
sea level

Sixth Meridian

N.E. cor. sec. 36, tp. 84, R. I, W. 6 M., ground.....	2,477
N.E. cor. sec. 36, tp. 85, R. I, W. 6 M., ground.....	2,742
N.E. cor. sec. 36, tp. 86, R. I, W. 6 M., ground.....	2,161
E. bdy. sec. 1, tp. 87, R. I, W. 6 M., Whitemud river.....	2,127
N. E. cor. sec. 36, tp. 87, R. I, W. 6 M., ground.....	2,304
N.E. cor. sec. 36, tp. 88, R. I, W. 6 M., ground.....	2,346
N.E. cor. sec. 36, tp. 89, R. I, W. 6 M., ground.....	2,232
N.E. cor. sec. 36, tp. 90, R. I, W. 6 M., ground.....	2,163

22nd Base, West of Sixth Meridian

N.E. cor. sec. 36, tp. 84, R. XIII, W. 6 M., ground.....	2,426
N.E. cor. sec. 33, tp. 84, R. XIII, W. 6 M., Boundary lake.....	2,421
N. bdy. sec. 36, tp. 84, R. XIV, W. 6 M., ground.....	2,407
N. bdy. sec. 36, tp. 84, R. XV, W. 6 M., ground.....	2,347
N. bdy. sec. 36, tp. 84, R. XVI, W. 6 M., ground.....	2,555
N. bdy. sec. 36, tp. 84, R. XVII, W. 6 M., ground.....	2,431
N. bdy. sec. 35, tp. 84, R. XVII, W. 6 M., Cecil lake.....	2,335
N. bdy. sec. 31, tp. 84, R. XVII, W. 6 M., top of valley of Pine river.....	2,294
N. bdy. sec. 35, tp. 84, R. XVIII, W. 6 M., North Pine river, water, nearly.....	1,650
N. bdy. sec. 36, tp. 84, R. XIX, W. 6 M., ground.....	2,252
N. bdy. sec. 32, tp. 84, R. XIX, W. 6 M., Charlie lake.....	2,289
N. bdy. sec. 36, tp. 84, R. XX, W. 6 M., ground 400 ft. west of N.E. cor.....	2,298
N.E. cor. sec. 36, tp. 84, R. XXI, W. 6 M., ground.....	2,554
N. bdy. sec. 34, tp. 84, R. XXI, W. 6 M., Deep creek.....	1,640
N.E. cor. sec. 36, tp. 84, R. XXII, W. 6 M., ground.....	2,511
N.E. cor. sec. 35, tp. 84, R. XXII, W. 6 M., ground, summit.....	2,799
N. bdy. sec. 33, tp. 84, R. XXII, W. 6 M., Cache creek.....	1,850
N. bdy. sec. 36, tp. 84, R. XXIII, W. 6 M., Cache creek.....	1,880
N. bdy. sec. 35, tp. 84, R. XXIII, W. 6 M., ground.....	2,147
N. bdy. sec. 31, tp. 84, R. XXIII, W. 6 M., Halfway river.....	1,690
N. bdy. sec. 36, tp. 84, R. XXIV, W. 6 M., ground.....	2,147
N.E. cor. sec. 36, tp. 84, R. XXV, W. 6 M., ground.....	2,334
N.E. cor. sec. 36, tp. 84, R. XXVI, W. 6 M., ground.....	2,439
N.W. cor. sec. 36, tp. 84, R. XXVI, W. 6 M., ground.....	2,433

23rd Base, West of Sixth Meridian

N.E. cor. sec. 36, tp. 88, R. I, W. 6 M., ground.....	2,346
N.E. cor. sec. 36, tp. 88, R. II, W. 6 M., ground.....	2,710
N.E. cor. sec. 36, tp. 88, R. III, W. 6 M., ground.....	2,468
N. bdy. sec. 35, tp. 88, R. III, W. 6 M., Whitemud river.....	2,372
N. bdy. sec. 31, tp. 88, R. III, W. 6 M., South branch Whitemud river.....	2,496
N.E. cor. sec. 36, tp. 88, R. IV, W. 6 M., ground.....	2,540
N.E. cor. sec. 36, tp. 88, R. V, W. 6 M., ground.....	2,935
N.E. cor. sec. 36, tp. 88, R. VI, W. 6 M., ground.....	2,987
N.E. cor. sec. 36, tp. 88, R. VII, W. 6 M., ground.....	3,327
N. bdy. sec. 34, tp. 88, R. VII, W. 6 M., source of Whitemud river.....	3,328
N.E. cor. sec. 36, tp. 88, R. VIII, W. 6 M., ground.....	3,360
N.E. cor. sec. 36, tp. 88, R. IX, W. 6 M., ground.....	3,424
N.E. cor. sec. 36, tp. 88, R. X, W. 6 M., ground.....	3,511
N.E. cor. sec. 36, tp. 88, R. XI, W. 6 M., ground.....	3,536
N.E. cor. sec. 36, tp. 88, R. XII, W. 6 M., ground.....	3,365
N.E. cor. sec. 36, tp. 88, R. XIII, W. 6 M., ground.....	3,622
N.E. cor. sec. 36, tp. 88, R. XIV, W. 6 M., ground.....	2,643

BASE AND MERIDIAN LINES—SURVEYOR GENERAL'S BRANCH

Elevation
above mean
sea level

23rd Base, West of Sixth Meridian

N.E. cor. sec. 36, tp. 88, R. XV, W. 6 M., ground.....	2,444
N. bdy. sec. 36, tp. 88, R. XV, W. 6 M., creek.....	2,407
N.E. cor. sec. 36, tp. 88, R. XVI, W. 6 M., ground.....	2,313
N. bdy. sec. 36, tp. 88, R. XVI, W. 6 M., Osborne river.....	2,301
N. bdy. sec. 32, tp. 88, R. XVI, W. 6 M., Doig river.....	2,199
N.E. cor. sec. 36, tp. 88, R. XVII, W. 6 M., ground.....	2,383
N.E. cor. sec. 36, tp. 88, R. XVIII, W. 6 M., ground.....	2,261
N. bdy. sec. 35, tp. 88, R. XVIII, W. 6 M., North Pine river.....	1,844
N. bdy. sec. 34, tp. 88, R. XVIII, W. 6 M., North Pine river.....	1,849
N.E. cor. sec. 36, tp. 88, R. XIX, W. 6 M., ground.....	2,375
N.E. cor. sec. 36, tp. 88, R. XX, W. 6 M., ground.....	2,314
N.E. cor. sec. 36, tp. 88, R. XXI, W. 6 M., ground.....	2,305
N. bdy. sec. 35, tp. 88, R. XXI, W. 6 M., Blueberry river.....	2,151
N.E. cor. sec. 36, tp. 88, R. XXII, W. 6 M., ground.....	2,543
N.E. cor. sec. 36, tp. 88, R. XXIII, W. 6 M., ground.....	2,367
N. bdy. sec. 36, tp. 88, R. XXIII, W. 6 M., Blueberry river.....	2,302
N.E. cor. sec. 36, tp. 88, R. XXIV, W. 6 M., ground.....	2,832
N.E. cor. sec. 36, tp. 88, R. XXV, W. 6 M., ground.....	2,811
N.W. cor. sec. 30, tp. 88, R. XXV, W. 6 M., ground, N.W. cor. of Peace River block.....	2,828

West Boundary of Peace River Block

N.W. cor. sec. 36, tp. 84, R. XXVI, W. 6 M., ground.....	2,433
N.W. cor. sec. 36, tp. 85, R. XXVI, W. 6 M., ground.....	2,496
W. bdy. sec. 35, tp. 86, R. XXVI, W. 6 M., stream.....	1,965
N.W. cor. sec. 35, tp. 86, R. XXVI, W. 6 M., ground.....	2,031
W. bdy. sec. 30, tp. 87, R. XXV, W. 6 M., Cameron river.....	2,137
N.W. cor. sec. 31, tp. 87, R. XXV, W. 6 M., ground.....	2,214

No.	IRRIGATION SURVEY BENCH MARKS*	Elevation above mean sea level
Saskatchewan		
158	N.E. cor. S.E. $\frac{1}{4}$ sec. 19, tp. 17, R. XIII, W. of 2 mer.	2,154
160	N.E. cor. S.E. $\frac{1}{4}$ sec. 32, tp. 17, R. XIII, W. of 2 mer.	2,072
161	N.E. cor. N.E. $\frac{1}{4}$ sec. 14, tp. 18, R. XIII, W. of 2 mer.	1,933
164	Top of iron bar, N.E. corner, sec. 36, tp. 16, R. VIII, W. of 2nd mer.	1,989
165	Rail, Can. Pac. Ry. over E. end of trestle 233 over Summerberry brook	1,939
	N.E. cor. sec. 36, tp. 10, R. XIX, W. 2 mer.	1,910.8
400	N. $\frac{1}{4}$ cor. sec. 34, tp. 11, R. XIX, W. 2 mer.	1,885.5
401	N.E. cor. sec. 31, tp. 17, R. XX, W. 2 mer.	1,882.8
402	N.E. cor. sec. 36, tp. 16, P. XX, W. 2 mer.	1,887.3
	N.E. cor. sec. 36, tp. 17, R. XXII, W. 2 mer.	1,857.9
	N.E. cor. sec. 35, tp. 17, R. XXIII, W. 2 mer.	1,894.5
403	N.E. cor. sec. 24, tp. 13, R. XXIV, W. 2 mer.	1,926.1
	N.E. cor. sec. 31, tp. 17, R. XXIV, W. 2 mer.	1,901.9
404	N.E. cor. sec. 36, tp. 17, R. XXIV, W. 2 mer.	1,893.9
405	E. $\frac{1}{4}$ mound, sec. 7, tp. 18, R. XXV, W. 2 mer.	1,930.6
406	N.E. cor. sec. 34, tp. 18, R. XXV, W. 2 mer.	1,685.5
407	E. $\frac{1}{4}$ cor. sec. 1, tp. 16, R. XXVII, W. 2 mer.	1,945.3
408	N.E. cor. sec. 36, tp. 17, R. XXVII, W. 2 mer.	1,928.2
409	N.E. cor. sec. 20, tp. 18, R. XXVII, W. 2 mer.	1,947.4
410	N.E. cor. sec. 24, tp. 18, R. XXVII, W. 2 mer.	1,946.8
411	E. $\frac{1}{4}$ mound, sec. 20, tp. 18, R. XXVIII, W. 2 mer.	1,960.6
412	N.E. cor. sec. 24, tp. 21, R. XXIX, W. 2 mer.	1,734.9
	Regina, west end, N. wall, Canadian Pacific Ry. station	1,897.2
	South boundary, sec. 3, tp. 24, R. IV, W. 3 mer.	1,747.1
	N.E. cor. sec. 9, tp. 23, R. V, W. 3 mer.	1,937.9
	S.W. cor. sec. 3, tp. 23, R. VI, W. 3 mer.	1,882.9
	S.W. cor. of sec. 1, tp. 22, R. VII, W. 3 mer.	2,077.0
413	Near N.E. cor. sec. 23, tp. 17, R. I, W. 3 mer.	1,960.5
414	N.E. cor. sec. 1, tp. 19, R. I, W. 3 mer.	1,960.8
415	N.E. cor. sec. 21, tp. 18, R. II, W. 3 mer.	1,972.6
416	N.E. cor. sec. 36, tp. 19, R. II, W. 3 mer.	1,965.6
417	N.E. cor. sec. 16, tp. 23, R. II, W. 3 mer.	1,812.9
418	E. $\frac{1}{4}$ cor. sec. 4, tp. 19, R. III, W. 3 mer.	1,979.9
419	N.E. cor. sec. 25, tp. 19, R. III, W. 3 mer.	1,992.3
420	N.E. cor. sec. 24, tp. 20, R. III, W. 3 mer.	1,965.5
421	N.W. cor., Tugaskie townsite, sec. 13, tp. 22, R. III	1,974.9
422	E. $\frac{1}{4}$ cor. sec. 24, tp. 19, R. IV, W. 3 mer.	1,991.0
423	E. $\frac{1}{4}$ cor. sec. 25, tp. 23, R. IV, W. 3 mer.	1,747.3
424	N.E. cor. sec. 26, tp. 19, R. V, W. 3 mer.	1,987.0
425	E. $\frac{1}{4}$ cor. sec. 36, tp. 19, R. V, W. 3 mer.	1,967.4
426	N.E. cor. sec. 35, tp. 20, R. VI, W. 3 mer.	1,990.1
427	N.E. cor. sec. 13, tp. 24, R. VI, W. 3 mer.	1,740.3
428	N.E. cor. sec. 14, tp. 21, R. VII, W. 3 mer.	2,018.0
429	N.E. cor. sec. 6, tp. 21, R. VII, W. 3 mer.	2,089.4
	N.E. cor. tp. 11, R. XXII, W. 3 mer.	2,548.6
276	35 chains W. of N.E. cor. sec. 2, tp. 10, R. XXIV	3,607.8
274	5 $\frac{1}{2}$ chains N. of N.E. corner, tp. 8, R. XXIII, W. 3 mer.	3,812.4
269	N.E. cor. tp. 7, R. XXIII, W. 3 mer.	3,801.1
273	N.W. $\frac{1}{4}$ sec. 21, tp. 6, R. XXIV, on bank of Frenchman brook	3,148.5

*At the township corners, and at points where streams, railways or prominent features are intersected by the lines run, permanent bench marks are established by driving an iron bar, one and one-half inches in diameter and five feet long, into the ground within ten inches of its top and marking these bars with steel dies. Permanent bench marks are also established in all cities, towns or villages in the district and at points where fixed rock and other permanent natural features are met with.

ALBERTA AND SASKATCHEWAN

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No.	IRRIGATION SURVEY BENCH MARKS	Elevation above mean sea level
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Saskatchewan

270	45-92 chains W. of N.E. cor. tp. 7, R. XXV, W. 3 mer.	3,912.3
268	11 chains E. of S.E. cor. sec. 4, tp. 7, R. XXV, W. 3 mer	3,562.5
430	S.W. $\frac{1}{4}$ sec. 30, tp. 6, R. XXV, W. 3 mer	3,203.1
431	N.E. $\frac{1}{4}$ sec. 29, tp. 6, R. XXV, W. 3 mer	3,217.6
154	N.E. cor. tp. 9, R. XXV, W. 3 mer	3,553.5
152	N.E. cor. tp. 9, R. XXVI, W. 3 mer	3,189.3
120	N.E. cor. tp. 11, R. XXVII, W. 3 mer	2,547.5
150	N.E. cor. tp. 9, R. XXVII, W. 3 mer	2,938.7
267	N.E. cor. tp. 4, R. XXVI, W. 3 mer	3,084.6
432	N.E. $\frac{1}{4}$ sec. 20, tp. 6, R. XXVI, W. 3 mer	3,218.9
433	N.W. $\frac{1}{4}$ sec. 24, tp. 6, R. XXVI, W. 3 mer	3,230.8
434	S. bank of Maple creek at E. bdy. sec. 16, tp. 11, R. XXVI, W. 3 mer	2,499.9
266	N.E. cor. sec. 34, tp. 4, R. XXVII, W. 3 mer	3,103.8
435	S.E. $\frac{1}{4}$ sec. 12, tp. 6, R. XXVII, W. 3 mer	3,234.2
436	N.E. $\frac{1}{4}$ sec. 16, tp. 6, R. XXVII, W. 3 mer	3,199.6
437	N.W. $\frac{1}{4}$ sec. 20, tp. 6, R. XXVII, W. 3 mer	3,238.3
271	22 chains W. of N.E. cor. sec. 34, tp. 7, R. XXVII, W. of 3 mer.	4,156.2
	N.E. cor. tp. 10, R. XXVII, W. 3 mer	2,611.5
	S.E. cor. tp. 11, R. XXVII, W. 3 mer	2,534.7
	S.W. $\frac{1}{4}$ sec. 2, tp. 6, R. XXVIII, W. 3 mer	3,222.5
	N.E. cor. tp. 9, R. XXVIII, W. 3 mer	2,908.5
	N.E. cor. tp. 10, R. XXVIII, W. 3 mer	2,712.3
	S.E. cor. tp. 11, R. XXVIII, W. 3 mer	2,753.0
	N.E. cor. tp. 11, R. XXVIII, W. 3 mer	2,555.3
	S.E. $\frac{1}{4}$ sec. 12, tp. 1, R. XXIX, W. 3 mer	2,786.9
438	N.E. cor. tp. 3, R. XXIX, W. 3 mer	3,170.6
439	S.E. cor. tp. 3, R. XXIX, W. 3 mer	3,002.4
440	N.E. cor. tp. 4, R. XXIX, W. 3 mer	3,284.0
441	N.E. cor. tp. 5, R. XXIX, W. 3 mer	3,449.7
442	S.W. $\frac{1}{4}$ sec. 30, tp. 5, R. XXIX, W. 3 mer	3,331.9
443	N.E. $\frac{1}{4}$ sec. 33, tp. 5, R. XXIX, W. 3 mer	3,347.8
444	N.E. cor. sec. 34, tp. 5, R. XXIX, W. 3 mer	3,243.7
445	N.E. cor. tp. 5, R. XXIX, W. 3 mer	3,449.7
	N.E. cor. sec. 33, tp. 6, R. XXIX, W. 3 mer	3,698.1
446	N.E. cor. sec. 34, tp. 7, R. XXIX, W. 3 mer	4,411.2
	N.E. cor. sec. 36, tp. 9, R. XXIX, W. 3 mer	2,900.1
	N.E. cor. tp. 10, R. XXIX, W. 3 mer	2,867.1
	S.E. cor. tp. 11, R. XXIX, W. 3 mer	2,954.9
	N.E. cor. tp. 11, R. XXIX, W. 3 mer	2,657.7
	N.E. cor. tp. 12, R. XXIX, W. 3 mer	2,441.0
447	S.E. cor. tp. 2, R. XXX, W. 3 mer	2,960.6
448	N.E. cor. tp. 3, R. XXX, W. 3 mer	3,270.3
449	N.E. cor. tp. 4, R. XXX, W. 3 mer	3,304.6
450	N.E. cor. tp. 5, R. XXX, W. 3 mer	3,506.9
	N.E. cor. tp. 10, R. XXX, W. 3 mer	2,779.2
	N.E. cor. tp. 11, R. XXX, W. 3 mer	2,427.8
	N.W. cor. Dixon Bros. store, Maple Creek	2,307.3

Alberta and Saskatchewan Boundary

451	N.E. cor. tp. 2, R. I, W. 4 mer.	3,012.4
452	S.W. cor. tp. 3, R. I, W. 4 mer.	3,040.6
453	N.W. $\frac{1}{4}$ sec. 36, tp. 3, R. I, W. 4 mer.	3,012.9
454	N.E. cor. tp. 3, R. I, W. 4 mer.	3,073.1
455	N.E. cor. tp. 4, R. I, W. 4 mer.	3,346.2
456	N.E. cor. sec. 24, tp. 5, R. I, W. 4 mer.	3,480.0
457	N.E. cor. tp. 5, R. I, W. 4 mer.	3,615.1

No.	IRRIGATION SURVEY BENCH MARKS	Elevation above mean sea level
Alberta and Saskatchewan Boundary		
458	N.E. cor. sec. 24, tp. 8, R. I, W. 4 mer.	4,471.3
	N.E. cor. tp. 8, R. I, W. 4 mer.	3,809.2
	N.E. cor. tp. 9, R. I, W. 4 mer.	3,118.5
459	N.E. cor. tp. 10, R. I, W. 4 mer.	2,671.1
	N.E. cor. tp. 11, R. I, W. 4 mer.	2,444.6
Alberta		
460	N.E. cor. tp. 3, R. II, W. 4 mer.	3,238.5
461	S.W. cor. tp. 3, R. II, W. 4 mer.	2,990.0
462	N.E. cor. tp. 4, R. II, W. 4 mer.	3,374.5
	45 chains E. of N.E. cor. sec. 34, tp. 4, R. II, W. 4 mer.	3,583.0
	N.E. cor. tp. 7, R. II, W. 4 mer.	4,630.7
464	N.E. cor. tp. 3, R. III, W. 4 mer.	3,198.8
465	N.E. cor. tp. 4, R. III, W. 4 mer.	3,572.6
262	22.03 chains S. of N.E. cor. sec. 13, tp. 5, R. III, W. 4 mer.	3,742.4
466	N.E. cor. tp. 5, R. III, W. 4 mer.	3,559.2
260	8.26 chains S. of N.E. corner, sec. 13, tp. 8, R. III, W. 4 mer.	4,583.4
132	N.E. cor. tp. 11, R. III, W. 4 mer.	2,489.6
214	N.E. cor. tp. 8, R. III, W. 4 mer.	4,011.1
140	N.E. cor. tp. 9, R. III, W. 4 mer.	3,282.3
134	N.E. cor. tp. 11, R. IV, W. 4 mer.	2,579.5
136	N.E. cor. tp. 11, R. V, W. 4 mer.	2,489.7
138	N.E. cor. tp. 11, R. VI, W. 4 mer.	2,369.8
467	N.E. cor. tp. 3, R. VII, W. 4 mer.	2,833.5
	S.E. cor. tp. 3, R. VII, W. 4 mer.	3,241.9
468	N.E. cor. tp. 4, R. VII, W. 4 mer.	2,846.0
469	S.E. cor. tp. 3, R. VIII, W. 4 mer.	2,976.2
470	N.E. cor. tp. 5, R. VIII, W. 4 mer.	2,856.1
471	N.E. cor. tp. 6, R. VIII, W. 4 mer.	2,734.8
472	S.E. cor. tp. 3, R. IX, W. 4 mer.	2,876.1
473	N.E. cor. tp. 3, R. IX, W. 4 mer.	2,969.9
474	N.E. cor. tp. 4, R. IX, W. 4 mer.	2,880.7
475	N.E. cor. tp. 5, R. IX, W. 4 mer.	2,859.3
476	N.E. cor. tp. 6, R. IX, W. 4 mer.	2,804.2
477	N.E. cor. tp. 3, R. X, W. 4 mer.	3,064.5
478	S.E. cor. tp. 3, R. X, W. 4 mer.	2,973.6
479	N.E. cor. tp. 4, R. X, W. 4 mer.	3,008.7
480	N.E. cor. tp. 5, R. X, W. 4 mer.	2,896.6
481	N.E. cor. tp. 6, R. X, W. 4 mer.	2,788.9
482	N.E. cor. tp. 3, R. XI, W. 4 mer.	3,081.1
	S.E. cor. tp. 3, R. XI, W. 4 mer.	2,980.0
483	N.E. cor. tp. 4, R. XI, W. 4 mer.	3,036.0
484	N.E. cor. tp. 5, R. XI, W. 4 mer.	3,009.0
485	N.E. cor. tp. 6, R. XI, W. 4 mer.	2,853.7
486	N.E. cor. tp. 7, R. XI, W. 4 mer.	2,690.4
487	N.E. cor. tp. 8, R. XI, W. 4 mer.	2,746.8
488	N.E. cor. tp. 9, R. XI, W. 4 mer.	2,743.2
	S.E. cor. tp. 3, R. XII, W. 4 mer.	3,192.6
	N.E. cor. tp. 3, R. XII, W. 4 mer.	3,194.7
489	N.E. cor. tp. 4, R. XII, W. 4 mer.	3,081.9
490	N.E. cor. tp. 5, R. XII, W. 4 mer.	2,947.9
491	N.E. cor. tp. 6, R. XII, W. 4 mer.	2,871.9
492	N.E. cor. tp. 7, R. XII, W. 4 mer.	2,766.1
493	N.E. cor. tp. 8, R. XII, W. 4 mer.	2,688.4
494	N.E. cor. tp. 9, R. XII, W. 4 mer.	2,631.4
495	N.E. cor. tp. 10, R. XII, W. 4 mer.	2,550.1

No. IRRIGATION SURVEY BENCH MARKS

Elevation
above mean
sea level

Alberta

	S.E. cor. tp. 3, R. XIII, W. 4 mer.	3,042.5
	N.E. cor. tp. 3, R. XIII, W. 4 mer	3,094.5
	N.E. cor. tp. 4, R. XIII, W. 4 mer	3,065.4
	N.E. cor. tp. 5, R. XIII, W. 4 mer	3,053.9
496	N.E. cor. tp. 6, R. XIII, W. 4 mer	2,658.9
497	N.E. cor. tp. 7, R. XIII, W. 4 mer	2,781.2
498	N.E. cor. tp. 8, R. XIII, W. 4 mer	2,713.3
499	N.E. cor. tp. 9, R. XIII, W. 4 mer	2,684.2
500	N.E. cor. tp. 10, R. XIII, W. 4 mer	2,649.6
501	N.E. cor. tp. 3, R. XIV, W. 4 mer	3,037.7
	S.E. cor. tp. 3, R. XIV, W. 4 mer	3,102.8
502	N.E. cor. tp. 4, R. XIV, W. 4 mer	3,016.6
503	N.E. cor. tp. 5, R. XIV, W. 4 mer	3,040.7
504	N.E. cor. tp. 6, R. XIV, W. 4 mer	2,921.1
505	N.E. cor. tp. 7, R. XIV, W. 4 mer	2,861.9
506	N.E. cor. tp. 8, R. XIV, W. 4 mer	2,768.1
507	N.E. cor. tp. 9, R. XIV, W. 4 mer	2,648.8
508	N.E. cor. tp. 10, R. XIV, W. 4 mer	2,534
509	S.E. cor. tp. 3, R. XV, W. 4 mer	3,012.1
510	N.E. cor. tp. 3, R. XV, W. 4 mer	3,069.3
511	N.E. cor. tp. 4, R. XV, W. 4 mer	3,088.7
512	N.E. cor. tp. 5, R. XV, W. 4 mer	3,011.1
513	N.E. cor. tp. 6, R. XV, W. 4 mer	2,911.6
514	N.E. cor. tp. 7, R. XV, W. 4 mer	2,803.5
515	N.E. cor. tp. 8, R. XV, W. 4 mer	2,715.7
516	N.E. cor. tp. 9, R. XV, W. 4 mer	2,579.0
517	N.E. cor. tp. 10, R. XV, W. 4 mer	3,123.2
518	N.E. cor. tp. 3, R. XVI, W. 4 mer	3,447.3
519	S.E. cor. tp. 3, R. XVI, W. 4 mer	3,125.4
520	N.E. cor. tp. 4, R. XVI, W. 4 mer	2,920.6
521	N.E. cor. tp. 5, R. XVI, W. 4 mer	3,084.7
522	N.E. cor. tp. 6, R. XVI, W. 4 mer	2,947.1
523	N.E. cor. tp. 7, R. XVI, W. 4 mer	2,718.5
	N.E. cor. tp. 8, R. XVI, W. 4 mer	2,657.1
524	N.E. cor. tp. 9, R. XVI, W. 4 mer	2,560.2
525	N.E. cor. tp. 10, R. XVI, W. 4 mer	2,476.3
526	N.E. cor. sec. 34, tp. 11, R. XVI, W. 4 mer	3,356.9
527	N.E. cor. tp. 3, R. XVII, W. 4 mer	3,479.9
528	N.E. cor. sec. 1, tp. 3, R. XVII, W. 4 mer	3,246.9
529	N.E. cor. tp. 4, R. XVII, W. 4 mer	3,119.4
530	N.E. cor. tp. 5, R. XVII, W. 4 mer	3,115.9
531	N.E. cor. tp. 6, R. XVII, W. 4 mer	2,993.8
532	N.E. cor. tp. 7, R. XVII, W. 4 mer	2,777.6
533	N.E. cor. tp. 8, R. XVII, W. 4 mer	2,667.8
534	N.E. cor. tp. 9, R. XVII, W. 4 mer	2,461.6
535	N.E. cor. tp. 10, R. XVII, W. 4 mer	2,596.3
536	S.E. cor. tp. 11, R. XVII, W. 4 mer	2,593.3
537	N.E. cor. tp. 11, R. XVII, W. 4 mer	2,607.0
538	N.E. cor. tp. 12, R. XVII, W. 4 mer	2,614.1
539	N.E. cor. tp. 13, R. XVII, W. 4 mer	3,476.4
540	N.E. cor. tp. 3, R. XVIII, W. 4 mer	3,207.9
541	N.E. cor. tp. 4, R. XVIII, W. 4 mer	3,160.2
542	N.E. cor. tp. 5, R. XVIII, W. 4 mer	2,911.7
543	N.E. cor. tp. 8, R. XVIII, W. 4 mer	2,699.9
544	N.E. cor. tp. 9, R. XVIII, W. 4 mer	2,694.4
545	N.E. cor. tp. 10, R. XVIII, W. 4 mer	

No.	IRRIGATION SURVEY BENCH MARKS	Elevation above mean sea level
Alberta		
546	N.E. cor. tp. 11, R. XVIII, W. 4 mer.	2,940.7
547	N.E. cor. tp. 12, R. XVIII, W. 4 mer.	2,684.4
548	N.E. cor. tp. 13, R. XVIII, W. 4 mer.	2,581.8
549	N.E. cor. tp. 14, R. XVIII, W. 4 mer.	2,622.9
550	N.E. cor. tp. 15, R. XVIII, W. 4 mer.	2,567.3
	N.E. cor. sec. 36, tp. 4, R. XIX, W. 4 mer.	3,395.8
551	N.E. cor. sec. 30, tp. 5, R. XIX, W. 4 mer.	3,239.4
552	N.E. cor. tp. 7, R. XIX, W. 4 mer.	3,067.2
553	N.E. cor. tp. 8, R. XIX, W. 4 mer.	2,891.9
	S.E. cor. sec. 1, tp. 11, R. XX, W. 4 mer.	2,790.9
554	N.E. cor. tp. 11, R. XIX, W. 4 mer.	2,749.9
555	N.E. cor. tp. 12, R. XIX, W. 4 mer.	2,693.9
556	N.E. cor. tp. 13, R. XIX, W. 4 mer.	2,665.5
557	N.E. cor. tp. 14, R. XIX, W. 4 mer.	2,615.1
558	N.E. cor. tp. 15, R. XIX, W. 4 mer.	2,669.9
559	N.E. cor. tp. 16, R. XIX, W. 4 mer.	2,680.4
	N.E. cor. sec. 36, tp. 4, R. XX, W. 4 mer.	3,439.5
560	N.E. $\frac{1}{4}$ sec. 30, tp. 5, R. XX, W. 4 mer.	3,288.6
561	N.E. cor. sec. 11, tp. 5, R. XX, W. 4 mer.	3,337.7
	N.E. cor. sec. 36, tp. 9, R. XX, W. 4 mer.	2,815.9
562	N.E. cor. tp. 11, R. XX, W. 4 mer.	2,795.2
563	N.E. cor. sec. 35, tp. 10, R. XX, W. 4 mer.	2,790.9
564	N.E. cor. tp. 12, R. XX, W. 4 mer.	2,780.5
565	N.E. cor. tp. 13, R. XX, W. 4 mer.	2,718.7
566	N.E. cor. tp. 14, R. XX, W. 4 mer.	2,697.8
567	N.E. cor. tp. 15, R. XX, W. 4 mer.	2,799.1
568	N.E. cor. tp. 16, R. XX, W. 4 mer.	2,801.8
82	N.E. cor. sec. 36, tp. 3, R. XXI, W. 4 mer.	4,221.7
80	N.E. cor. sec. 36, tp. 5, R. XXI, W. 4 mer.	3,221.3
78	N.E. cor. sec. 36, tp. 7, R. XXI, W. 4 mer.	3,029.8
75	Lethbridge, N.E. cor. of courthouse.	2,992.8
73	N. bdy. sec. 33, tp. 8, R. XXI, W. 4 mer.	3,011.4
76	N.E. cor. sec. 33, tp. 9, R. XXI, W. 4 mer.	2,938.1
569	N.E. cor. sec. 35, tp. 10, R. XXI, W. 4 mer.	2,918.0
570	N.E. cor. tp. 11, R. XXI, W. 4 mer.	2,880.6
571	N.E. cor. sec. 33, tp. 4, R. XXI, W. 4 mer.	3,648.3
572	N.E. cor. sec. 36, tp. 2, R. XXII, W. 4 mer.	3,733.7
573	N.E. cor. sec. 12, tp. 5, R. XXII, W. 4 mer.	3,425.6
84	N.E. cor. sec. 33, tp. 3, R. XXII, W. 4 mer.	3,727.5
93	$\frac{1}{4}$ sec. mound, E. bdy. sec. 2, tp. 4, R. XXII, W. 4 mer.	3,622.6
574	N.E. cor. sec. 35, tp. 10, R. XXII, W. 4 mer.	3,023.6
71	N.E. cor. sec. 35, tp. 8, R. XXII, W. 4 mer.	2,709.8
575	N.E. $\frac{1}{4}$ sec. 11, tp. 1, R. XXIII, W. 4 mer.	4,130.2
	S.E. cor. tp. 1, R. XXIII, W. 4 mer.	4,629.3
576	N.E. cor. sec. 7, tp. 2, R. XXIII, W. 4 mer.	4,130.6
577	N.E. cor. sec. 36, tp. 3, R. XXIII, W. 4 mer.	3,848.9
578	N.E. cor. sec. 17, tp. 3, R. XXIII, W. 4 mer.	4,007.0
57	N.E. cor. sec. 36, tp. 4, R. XXIII, W. 4 mer.	3,441.0
67	41.00 chains N. of N.E. cor. sec. 24, tp. 6, R. XXIII.	3,031.9
69	40.00 chains S. of N.E. cor. sec. 25, tp. 8, R. XXIII.	2,798.2
579	N.E. cor. tp. 9, R. XXIII, W. 4 mer.	3,066.2
580	N.E. cor. sec. 35, tp. 10, R. XXIII, W. 4 mer.	3,211.9
581	N.E. cor. tp. 11, R. XXIII, W. 4 mer.	3,142.8
582	N.E. cor. tp. 12, R. XXIII, W. 4 mer.	3,272
583	S.W. cor. sec. 3, tp. 1, R. XXIV, W. 4 mer.	4,248.4
88	N.E. cor. tp. 1, R. XXIV, W. 4 mer.	5,002.9

No.	IRRIGATION SURVEY BENCH MARKS	Elevation above mean sea level
Alberta		
92	S.E. cor. sec. 17, tp. 2, R. XXIV, W. 4 mer.	3,857.9
86	N.E. cor. tp. 3, R. XXIV, W. 4 mer.	3,712.5
584	N.E. cor. tp. 2, R. XXIV, W. 4 mer.	3,958.8
	N.E. cor. sec. 34, tp. 4, R. XXIV, W. 4 mer.	3,634.2
77	Quarter-sec. cor., N. bdy. of sec. 33, tp. 8, R. XXIV.	2,990.4
585	N.E. cor. sec. 35, tp. 10, R. XXIV, W. 4 mer.	3,240.4
586	N.E. cor. tp. 11, R. XXIV, W. 4 mer.	3,145.2
587	N.E. cor. tp. 12, R. XXIV, W. 4 mer.	3,132.8
588	N.E. cor. sec. 1, tp. 1, R. XXV, W. 4 mer.	4,227.1
589	S. $\frac{1}{4}$ mound sec. 5, tp. 1, R. XXV, W. 4 mer.	4,171.4
	N.E. cor. sec. 36, tp. 1, R. XXV, W. 4 mer.	3,972.0
91	On S.E. $\frac{1}{4}$ sec. 36, tp. 1, R. XXV, at intake of St. Mary irrigation canal	3,888.0
590	E. $\frac{1}{4}$ cor. sec. 8, tp. 1, R. XXV, W. 4 mer.	4,088.9
116	Near W. end of St. Mary River bridge, sec. 11, tp. 3, R. XXV.	3,650.1
591	N.E. cor. sec. 35, tp. 10, R. XXV, W. 4 mer.	3,153.9
592	N.E. cor. tp. 11, R. XXV, W. 4 mer.	3,180.2
593	N.E. cor. tp. 12, R. XXV, W. 4 mer.	3,190.9
594	275 ft. east of N.E. cor. sec. 10, tp. 1, R. XXVI, W. 4 mer.	4,366.8
595	E. $\frac{1}{4}$ cor. sec. 6, tp. 2, R. XXVI, W. 4 mer.	4,628.5
49	75.00 chains S. of N.E. cor. sec. 36, tp. 2, R. XXVI, W. 4 mer.	3,827.3
41	N.E. cor. sec. 36, tp. 5, R. XXVI.	3,372.6
596	N.E. cor. sec. 35, tp. 10, R. XXVI, W. 4 mer.	3,225.8
597	N.E. cor. tp. 11, R. XXVI, W. 4 mer.	3,240.7
598	N.E. cor. tp. 12, R. XXVI, W. 4 mer.	3,231.7
599	N.E. cor. tp. 13, R. XXVI, W. 4 mer.	3,193.6
600	N.E. cor. sec. 5, tp. 2, R. XXVII, W. 4 mer.	4,406.8
43	N.E. cor. sec. 36, tp. 4, R. XXVII, W. 4 mer.	3,529.9
601	N.E. cor. sec. 10, tp. 9, R. XXVII, W. 4 mer.	3,218.8
602	On Willow creek, 2,418 ft., N. 61° 57' E. from N.E. cor. tp. 10, R. XXVII.	3,260.4
603	1,912 ft. S. of E. $\frac{1}{4}$ cor. sec. 12, tp. 2, R. XXVIII, W. 4 mer.	4,431.0
604	At cable station, Belly river, West's ranch, N.E. $\frac{1}{4}$ sec. 5, tp. 2, R. XXVIII.	4,390.0
45	S.E. cor. sec. 1, tp. 3, R. XXVIII, W. 4 mer.	4,172.3
605	At Waterton River cable station, N.E. $\frac{1}{4}$ sec. 8, tp. 2, R. XXIX, W. 4 mer.	4,196.7
606	On Oldman river, 1,500 ft. below mouth of Beaver creek.	3,295.6
607	Oldman river, 1 mile below Indian mission.	3,311.6
608	Sill of headgate, A. R. & I. Co.'s canal at Kimball.	3,887.0
47	S.E. cor. sec. 1, tp. 3, R. XXIX, W. 4 mer.	4,387.0
200	21 chains N. of N.E. cor. tp. 1, R. XXVIII, W. of 4 mer., on shore of lake	4,592.5
201	N.E. cor. tp. 1, R. XIX, W. 4 mer.	4,904.9
202	E. side of trail, between Waterton lakes, in sec. 25, tp. 1, R. XXX, W. of 4 mer.	4,213.5
39	N.E. cor. sec. 12, tp. 9, R. XXVI, W. of 4 mer.	3,095.2
79	N.E. cor. sec. 34, tp. 8, R. XXVI, W. of 4 mer.	3,135.5
81	39.05 chains W. of N.E. cor. sec. 33, tp. 8, R. XXVI, W. of 4 mer.	3,192.8
115	N.E. cor. sec. 36, tp. 9, R. 27, W. of 4 mer.	3,192.8
83	Station 52, Macleod and Pincher Creek trail, sec. 7, tp. 7, R. XXVIII.	3,389.9
85	Station 52, Macleod and Pincher Creek trail, sec. 12, tp. 7, R. XXIX.	3,393.6
95	N.E. cor. tp. 7, R. I, W. of 5 mer.	3,788.1
96	N.E. cor. tp. 6, R. XXX, W. of 4 mer.	3,653.4
97	N.E. cor. tp. 6, R. I, W. of 5 mer.	3,889.1
98	Quarter-sec. mound on E. bdy. sec. 12, tp. 6, R. I, W. of 5 mer.	4,066.0
99	N.E. cor. tp. 5, R. XXIX, W. of 4 mer.	3,764.3
74	N.E. cor. sec. 10, tp. 23, R. XXIX, W. of 4 mer.	3,203.1
87	N.E. cor. sec. 36, tp. 12, R. XXVIII, W. of 4 mer.	3,373.7
35	5.00 chains S. of N.E. cor. sec. 12, tp. 15, R. XXVI, W. of 4 mer.	3,114.6
29	1.43 chains N. of N.E. cor. sec. 25, tp. 15, R. XXVIII, W. of 4 mer.	3,379.6
27	10.50 chains S. of N.E. cor. sec. 12, tp. 16, R. XXVIII, W. of 4 mer.	3,312.0

No.	IRRIGATION SURVEY BENCH MARKS	Elevation above mean sea level
Alberta		
114	Near north end of Can. Pac. Ry. bridge over S. branch Mosquito creek.	3,352.2
33	N.E. cor. sec. 36, tp. 16, R. XXVI, W. of 4 mer.	3,350.1
31	20.05 chains W. of N.E. cor. sec. 31, tp. 16, R. XXVI, W. of 4 mer.	3,209.1
25	4.81 chains E. of N.E. cor. sec. 31, tp. 16, R. XXVIII, W. of 4 mer.	3,377.2
23	11.98 chains W. of N.E. cor. sec. 35, tp. 16, R. XXIX, W. of 4 mer.	3,387.6
21	N.E. cor. sec. 36, tp. 16, R. II, W. of 5 mer.	4,438.5
19	20.00 chains W. of N.E. cor. sec. 33, tp. 16, R. II, W. of 5 mer.	4,009.6
15	55.00 chains S. of N.E. cor. sec. 1, tp. 18, R. II, W. of 5 mer.	3,729.6
17	47.05 chains S. of N.E. cor. sec. 36, tp. 17, R. II, W. of 5 mer.	3,767.7
34	S.E. cor. sec. 1, tp. 19, R. XXVIII, W. of 4 mer.	3,302.8
32	High River, S.E. cor. stone, High River Trading Co.'s store.	3,406.2
30	N.E. cor. sec. 36, tp. 19, R. XIX, W. of 4 mer.	3,433.6
28	N.E. cor. sec. 36, tp. 20, R. XXVIII, W. of 4 mer.	3,576.0
36	N.E. cor. sec. 36, tp. 21, R. XXVIII, W. of 4 mer.	3,339.7
26	10.00 chains E. of N.E. cor. sec. 31, tp. 16, R. XX, W. of 4 mer.	3,248.7
24	North boundary, sec. 35, tp. 20, R. I, at Can. Pac. Ry. crossing.	3,508.8
11	N.E. cor. sec. 36, tp. 20, R. II, W. of 5 mer.	3,835.0
13	49.00 chains S. of N.E. cor. sec. 25, tp. 20, R. II, W. of 5 mer.	3,645.1
9	25.00 chains S. of N.E. cor. sec. 1, tp. 22, R. II, W. of 5 mer.	3,573.7
22	20 ft. S. of N.E. cor. sec. 2, tp. 21, R. III, W. of 5 mer.	3,852.4
112	3 ft. N. of S.W. corner of school plot in S.E. cor. sec. 22, tp. 22, R. III.	3,803.0
20	N.E. cor. sec. 4, tp. 22, R. III, W. of 5 mer.	3,925.9
18	N.E. cor. sec. 24, tp. 22, R. IV.	4,000.5
16	N.E. cor. sec. 36, tp. 22, R. IV, W. of 5 mer.	4,549.9
111	E. bdy. sec. 4, tp. 23, R. I, about 75 ft. W. of highway bridge over Fish creek.	3,400.3
7	35.00 chains, S. of N.E. cor. sec. 1, tp. 23, R. II, W. of 5 mer.	3,523.4
108	At intersection of E. bdy. tp. 23, R. XXIV, W. of 4 mer., with Can. Pac. Ry.	2,959.3
107	N.E. cor. tp. 24, R. XXIV, W. of 4 mer.	3,070.3
106	N.E. cor. tp. 23, R. XXIV, W. of 4 mer.	3,122.8
103	S.W. cor. tp. 23, R. XXV, W. of 4 mer.	3,267.5
42	N.E. cor. sec. 36, tp. 23, R. XXVI, W. of 4 mer.	3,248.9
104	N.E. cor. sec. 36, tp. 24, R. XXVI, W. of 4 mer.	3,081.4
105	N.E. cor. sec. 36, tp. 25, R. XXVI, W. of 4 mer.	3,086.9
159	N.E. cor. sec. 36, tp. 25, R. XXVII, W. of 4 mer.	3,124.4
38	E. bdy. sec. 13, tp. 23, R. XXVIII, W. of 4 mer., 1.53 chains S. of track.	3,365.4
40	N.E. cor. sec. 36, tp. 24, R. XXVIII, W. of 4 mer.	3,313.0
102	N.E. cor. sec. 36, tp. 25, R. XXVIII, W. of 4 mer.	3,369.2
44	E. bdy. sec. 13, tp. 23, R. XXIX, at S.E. cor. Shepard station ground.	3,373.8
46	N.E. cor. sec. 36, tp. 24, R. XXIX, W. of 4 mer.	3,547.7
101	N.E. cor. sec. 10, tp. 23, R. XXIX, W. of 4 mer.	3,386.6
100	On S.E. $\frac{1}{2}$ sec. 13, tp. 24, R. I, W. of 5 mer., at intake of Bow River canal.	3,399.7
109	Sec. 14, tp. 24, R. I, W. of 5 mer., at Can. Pac. Ry. bridge over Elbow river.	3,414.4
1	Calgary, N.W. cor. of post office.	3,436.3
2	Calgary, S.E. cor. of court-house.	3,441.3
3	N.E. cor. sec. 36, tp. 24, R. II, W. of 5 mer.	3,642.9
4	Nose hill, sandstone rock, 20 chs. E. of N.W. cor. sec. 31, tp. 24, R. I.	3,876.7
5	52.17 chains S. of N.E. cor. sec. 25, tp. 23, R. II, W. of 5 mer.	3,525.8
6	10 chains W. of N.E. cor. sec. 34, tp. 24, R. II, W. of 5 mer.	3,508.7
8	N.E. cor. sec. 36, tp. 24, R. III, W. of 5 mer.	3,819.4
48	N.E. cor. sec. 34, tp. 24, R. I, W. of 5 mer.	3,440.7
14	1 chain N.W. of $\frac{1}{2}$ sec. cor. on E. boundary, sec. 13, tp. 24, R. IV, W. of 5 mer.	3,908.7
10	N.E. cor. sec. 36, tp. 24, R. IV, W. of 5 mer.	3,995.1
12	35.27 chains W. of N.E. cor. sec. 31, tp. 24, R. IV, W. of 5 mer.	3,997
68	$\frac{1}{2}$ sec. mound on E. boundary, sec. 25, tp. 25, R. IV, W. of 5 mer.	3,677.6
66	N.E. cor. sec. 36, tp. 26, R. IV, W. of 5 mer.	4,249.7
157	N.E. cor. sec. 36, tp. 26, R. XXVII, W. of 4 mer.	3,073.1

No.	IRRIGATION SURVEY BENCH MARKS	Elevation above mean sea level
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Alberta

155	N.E. cor. sec. 36, tp. 27, R. XXVII, V. of 4 mer.	3,075.1
153	N.E. cor. sec. 36, tp. 28, R. XXVII, W. of 4 mer.	3,148.5
54	N.E. cor. sec. 36, tp. 28, R. XXVIII, W. of 4 mer.	3,201.3
151	N.E. cor. sec. 36, tp. 29, R. XXVIII, W. of 4 mer.	3,253.0
56	About 4 chs. E. of N.E. cor. sec. 33, tp. 28, R. XXVIII, W. of 4 mer.	3,172.3
52	N. boundary, sec. 35, tp. 28, R. I, at crossing of Edmonton branch, Can. Pac. Ry	3,597.9
50	N.E. cor. sec. 36, tp. 26, R. II, W. of 5 mer.	3,906.5
58	N.E. cor. sec. 36, tp. 28, R. II, W. of 5 mer.	3,779.9
60	Ledge of sandstone, about 6 chs. W. of N.E. cor. tp. 28, R. III, W. of 5 mer	3,643.8
62	N.E. cor. sec. 28, R. IV, W. of 5 mer.	3,956.5
64	Quarter-sec. mound on N. boundary, sec. 33, tp. 28, R. IV, W. of 5 mer.	3,874.3
149	N.E. cor. tp. 29, R. XXIX, W. of 4 mer.	3,156.1
147	N.E. cor. tp. 29, R. I, W. of 5 mer.	3,282.4
145	N.E. cor. tp. 30, R. I, W. of 5 mer.	3,282.9
143	N.E. cor. tp. 31, R. I, W. of 5 mer.	3,262.3
129	N.E. cor. tp. 31, R. II, W. of 5 mer.	3,377.7
141	N.E. cor. tp. 32, R. II, W. of 5 mer.	3,356.9
119	N.E. cor. tp. 29, R. III, W. of 5 mer.	3,551.1
123	N.E. cor. tp. 30, R. III, W. of 5 mer.	3,571.6
127	N.E. cor. tp. 31, R. III, W. of 5 mer.	3,541.1
133	N.E. cor. tp. 32, R. III, W. of 5 mer.	3,436.1
139	Quarter sec. mound, E. bdy. sec. 10, tp. 33, R. III, W. of 5 mer.	2,387.5
117	N.E. cor. tp. 29, R. IV, W. of 5 mer.	3,863.8
121	N.E. cor. tp. 30, R. IV, W. of 5 mer.	3,668.2
125	N.E. cor. tp. 31, R. IV, W. of 5 mer.	3,619.7
131	3 chs. E. of N.E. cor. tp. 32, R. IV, W. of 5 mer.	3,551.5
135	N.E. cor. tp. 32, R. V., W. of 5 mer.	3,690.3
137	Quarter-sec. mound, N.E. sec. 34, tp. 32, R. V., W. of 5 mer	3,571.3

Irrigation Surveys—South Saskatchewan River Diversion (proposed)

N.E. cor. tp. 17, R. XI, W. of 3 mer.	2,320.5
E. bdy. sec. 25, tp. 18, R. XI, at Swift Current to Elbow trail crossing.	2,470.4
S.E. cor. tp. 19, R. XI, W. of 3 mer.	2,410.6
N.E. cor. tp. 19, R. XI, W. of 3 mer.	2,300.1
South Saskatchewan river at crossing of line between R. X and XI, W. of 3 mer.	1,736.0
N.E. cor. tp. 19, R. IX, W. of 3 mer.	2,508.5
South Saskatchewan river at mouth of Aiktow brook, 'The Elbow'	1,683.5
Height-of-land between Aiktow brook and Qu'Appelle river.	1,798
Qu'Appelle river at crossing of E. bdy., sec. 30, tp. 23, R. II, W. of 3 mer	1,767.8

Sundry Elevations Established by Irrigation Branch

Lake in secs. 31-33, tp. 19, R. IV, W. 3 M., water.	1,941
Lake, sec. 31, tp. 19, R. V, W. 3 M., water.	1,965
Lake, E. ¼ of tp. 20, R. VI, W. 3 M., water.	1,973
Highest point between sec. 19, tp. 21, R. VII, W. 3 M., and sec. 35, tp. 20, R. VI	2,014
Cypress lake, tp. 6, R. XXVI, W. 3 M., water (June, 1913).	3,188
Battle creek, N.E. cor. sec. 1, tp. 6, R. XXVIII, W. 3 M.	3,194
Battle creek, N.E. cor. sec. 24, tp. 5, R. XXIX, W. 3 M.	3,274
Battle creek, N. bdy. sec. 33, tp. 5, R. XXIX, W. 3 M.	3,348
Lodge creek, S. bdy. sec. 12, tp. 1, R. XXIX, W. 3 M., water.	2,741
Lodge creek, S.E. cor. sec. 1, tp. 3, R. XXX, W. 3 M., water	2,934
Lodge creek, N. bdy. sec. 17, tp. 3, R. XXX, W. 3 M.	2,964
Creek, S. bdy. sec. 4, tp. 3, R. XXIX, W. 3 M., water.	2,915
Pakowki lake, tps. 3-4-5, R. VII to IX, W. 4 M., water.	2,806
Chin coulée, N. bdy. sec. 34, tp. 6, R. X, W. 4 M.	2,613

IRRIGATION SURVEY BENCH MARKS

Elevation
above mean
sea level

Sundry Elevations Established by Irrigation Branch

Chin coulée, E. bdy., sec. 36, tp. 6, R. XII, W. 4 M.	2,656
Chin coulée, N.E. cor. sec. 36, tp. 6, R. XIII, W. 4 M., dry slough	2,660
Crow Indian lake, tp. 5, R. XIII, W. 4 M.	2,882
Etzikom coulée, E. bdy. sec. 36, tp. 5, R. X, W. 4 M.	2,814
Etzikom coulée, E. bdy. sec. 13, tp. 5, R. XIV, W. 4 M.	2,885
Etzikom coulée, E. bdy. sec. 13, tp. 6, R. XVII, W. 4 M.	2,937
Mud lake, sec. 24, tp. 9, R. XXVII, W. 4 M.	3 170

BENCH MARKS—SOUTHERN ALBERTA LAND COMPANY

N.E. cor. sec. 34, tp. 11, R. XI, W. 4 mer.	2,284.3
N.E. cor. sec. 36, tp. 11, R. XII, W. 4 mer.	2,580.9
N.E. cor. sec. 36, tp. 11, R. XIII, W. 4 mer.	2,371.7
N.E. cor. sec. 36, tp. 11, R. XIV, W. 4 mer.	2,457.7
N.E. cor. sec. 36, tp. 11, R. XVII, W. 4 mer.	2,597.6
N.E. cor. sec. 2, tp. 12, R. XI, W. 4 mer.	2,400.9
N.E. cor. sec. 36, tp. 12, R. XI, W. 4 mer.	2,517.8
N.E. cor. sec. 36, tp. 12, R. XII, W. 4 mer.	2,515.2
N.E. cor. sec. 36, tp. 12, R. XIII, W. 4 mer.	2,540.2
N.E. cor. sec. 36, tp. 12, R. XV, W. 4 mer.	2,618.9
N.E. cor. sec. 36, tp. 12, R. XVI, W. 4 mer.	2,580.4
N.E. cor. sec. 36, tp. 13, R. X, W. 4 mer.	2,506.9
N.E. cor. sec. 36, tp. 13, R. XI, W. 4 mer.	2,496.2
N.E. cor. sec. 36, tp. 13, R. XII, W. 4 mer.	2,499.4
N.E. cor. sec. 36, tp. 13, R. XIII, W. 4 mer.	2,485.2
N.E. cor. sec. 25, tp. 13, R. XIV, W. 4 mer.	2,447.2
N.E. cor. sec. 35, tp. 13, R. XIV, W. 4 mer.	2,430.4
N.E. cor. sec. 36, tp. 13, R. XV, W. 4 mer.	2,573.7
N.E. cor. sec. 36, tp. 13, R. XVI, W. 4 mer.	2,595.2
N.E. cor. sec. 36, tp. 13, R. XVII, W. 4 mer.	2,618.9
N.E. cor. sec. 36, tp. 14, R. VII, W. 4 mer.	2,391.7
N.E. cor. sec. 36, tp. 14, R. VIII, W. 4 mer.	2,467.7
N.E. cor. sec. 36, tp. 14, R. IX, W. 4 mer.	2,401.7
N.E. cor. sec. 36, tp. 14, R. X, W. 4 mer.	2,482.9
N.E. cor. sec. 19, tp. 14, R. XIV, W. 4 mer.	2,510.3
N.E. cor. sec. 28, tp. 14, R. XV, W. 4 mer.	2,396.1
N.E. cor. sec. 24, tp. 14, R. XVI, W. 4 mer.	2,477.8
N.E. cor. sec. 36, tp. 14, R. XVII, W. 4 mer.	2,502.6
N.E. cor. sec. 36, tp. 15, R. XVII, W. 4 mer.	2,501.2
N.E. cor. sec. 36, tp. 16, R. XVII, W. 4 mer.	2,511.3

BENCH MARKS—ALBERTA RAILWAY AND IRRIGATION COMPANY

N.E. cor. sec. 25, tp. 5, R. XI, W. 4 mer.	2,979
N.E. cor. sec. 36, tp. 2, R. XIII, W. 4 mer.	3,072
N.E. cor. sec. 1, tp. 5, R. XIV, W. 4 mer.	3,028
N.E. cor. sec. 30, tp. 5, R. XV, W. 4 mer.	3,100
N.E. cor. sec. 32, tp. 5, R. XVI, W. 4 mer.	3,103
N.E. cor. sec. 6, tp. 6, R. XVI, W. 4 mer.	3,136
N.E. cor. sec. 34, tp. 4, R. XVII, W. 4 mer.	3,161
N. ¼ sec. 35, tp. 5, R. XVII, W. 4 mer.	3,128
N.E. cor. sec. 12, tp. 6, R. XVII, W. 4 mer.	3,107
N.E. cor. sec. 30, tp. 8, R. XVIII, W. 4 mer.	2,914
N.E. cor. sec. 36, tp. 1, R. XIX, W. 4 mer.	3,730
N.E. cor. sec. 36, tp. 4, R. XIX, W. 4 mer.	3,389

ALBERTA

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BENCH MARKS—ALBERTA RAILWAY AND IRRIGATION COMPANY

Elevation
above mean
sea level

N.E. cor. sec. 30, tp. 8, R. XIX, W. 4 mer.	2,891
N.E. cor. sec. 36, tp. 9, R. XIX, W. 4 mer.	2,765
N.E. cor. sec. 36, tp. 1, R. XX, W. 4 mer.	3,862
N.E. cor. sec. 36, tp. 8, R. XX, W. 4 mer.	2,851
N.E. cor. sec. 36, tp. 9, R. XX, W. 4 mer.	2,816
N.E. cor. sec. 24, tp. 10, R. XX, W. 4 mer.	2,808
N.E. cor. sec. 36, tp. 1, R. XXI, W. 4 mer.	4,173
N.E. cor. sec. 36, tp. 7, R. XXI, W. 4 mer.	3,028
N.E. cor. sec. 36, tp. 8, R. XXI, W. 4 mer.	2,946
N. $\frac{1}{4}$ cor. sec. 36, tp. 9, R. XXI, W. 4 mer.	2,882
N.E. cor. sec. 36, tp. 10, R. XXI, W. 4 mer.	2,886

BENCH MARKS—CANADIAN PACIFIC RAILWAY, IRRIGATION
BRANCH

N.E. $\frac{1}{4}$ sec. 36, tp. 14, R. XIII, W. 4 mer., ground	2,461
N.E. $\frac{1}{4}$ sec. 34, tp. 19, R. XIII, W. 4 mer., ground	2,467
N.E. $\frac{1}{4}$ sec. 30, tp. 16, R. XIV, W. 4 mer., ground	2,552
N.E. $\frac{1}{4}$ sec. 17, tp. 17, R. XIV, W. 4 mer., ground	2,545
S.W. cor. sec. 1, tp. 18, R. XIV, W. 4 mer., ground	2,452
N.E. cor. sec. 36, tp. 18, R. XIV, W. 4 mer.	2,475
N.E. cor. sec. 36, tp. 19, R. XIV, W. 4 mer., ground	2,427
N.E. cor. sec. 1, tp. 18, R. XV, W. 4 mer.	2,526
N.E. cor. S.E. $\frac{1}{4}$ sec. 36, tp. 18, R. XV, W. 4 mer., ground	2,478
N.E. $\frac{1}{4}$ sec. 36, tp. 21, R. XV, W. 4 mer., ground	2,355
N.E. $\frac{1}{4}$ sec. 36, tp. 23, R. XV, W. 4 mer., ground	2,367
N.E. cor. sec. 36, tp. 18, R. XVI, W. 4 mer., ground	2,522
N.E. $\frac{1}{4}$ sec. 36, tp. 23, R. XVI, W. 4 mer., ground	2,468
N.E. $\frac{1}{4}$ sec. 36, tp. 24, R. XVI, W. 4 mer., ground	2,471
N.E. $\frac{1}{4}$ sec. 36, tp. 20, R. XVII, W. 4 mer., ground	2,517
N.W. $\frac{1}{4}$ sec. 36, tp. 22, R. XVII, W. 4 mer., ground	2,507
S.E. $\frac{1}{4}$ sec. 3, tp. 21, R. XVIII, W. 4 mer., ground	2,567

MANITOBA—SUNDRY ALTITUDES	Lat.	Long.	Elevation above mean sea level
*Lake Manitoba, water (June 27, 1914).....	51 00	98 30	816
†Lake Winnipegosis, water (Sept. 12, 1914).....	52 30	100 00	831.6
†Lake Dauphin, water (Aug. 18, 1914).....	51 20	99 50	854.0
§Swan lake.....	52 30	100 45	849
••Waterhen lake.....	52 00	99 35	830
Duck mountain.....	51 45	100 50	2,600
Porcupine mountain.....	52 30	101 45	2,500
Riding mountain.....	51 00	100 30	2,000
Meadow portage, immit.....	51 44	99 35	927
Mossy portage, summit.....	53 05	100 06	838
Asessippi P.O.....	50 58	101 18	1,450
Shellmouth, bottom of valley, 1,335; top of bank.....	50 57	101 27	1,565
Lake St. Martin.....	51 40	98 30	801
St. John butte, highest point of Turtle mountain in Man..	49 02	99 59	2,200
Tiger hills.....	49 30	98 00	1,500-1,600
Big, Tiger hill, about.....	49 30	99 45	1,640
Brandon hills.....	49 40	99 55	1,550-1,600
Hairy lake.....	54 20	97 22	700
Pine lake.....	54 35	96 12	610
Windy lake.....	54 38	96 02	605
Oxford lake.....	54 47	96 00	585
Knee lake.....	55 00	95 00	550
Swampy lake.....	54 45	94 57	500
Island lake.....	53 40	94 00	900
Nelson lake.....	55 50	99 00	735
Footprint lake.....	55 42	99 00	735
Beaver-dam lake.....	55 35	98 35	710
Pipestone lake.....	55 35	98 05	510
Paint lake.....	55 28	98 00	560
Thunder hill.....	52 05	101 38	1,997
Cross lake (Saskatchewan river).....	53 10	99 35	815
Cedar lake.....	53 15	100 00	830
*†Red Deer lake.....	52 55	101 20	875
Goose lake.....	54 25	101 30	905
Cranberry lakes, Upper and Lower.....	54 05	101 15	935
Athapapuskow lake.....	54 35	101 40	935
File lake.....	54 55	100 20	920
Sandy lake.....	54 50	98 50	700
Wekusko lake.....	54 45	99 50	842
Southern Indians lake.....	57 00	99 00	800
Kissiasing lake.....	55 15	101 15	900
Burntwood lake.....	55 25	100 20	886

*Total length 119 miles; divided into two parts by the 'Narrows'; southern portion is 63 miles long; has a maximum width of 29 miles; shore line of 160 miles and total area 1,039 square miles; the northern portion is 50 miles long, has a length of shore line 375 miles; area, 672 square miles, and maximum depth 21½ feet. Average depth of lake, 16 feet.

†Its greatest length is 122 miles; greatest width 17½ miles; shore line of 570 miles; area, exclusive of islands, of 2,000 square miles, and greatest ascertained depth, 38 feet.

††It has a greatest length of 26 miles; greatest width, 11 miles; shore line, 64 miles; area 195 square miles, and greatest ascertained depth, 12 feet.

§It has a greatest length of 20 miles; greatest width, 8 miles; shore line, 70 miles, and area of 121 square miles.

••It is 24 miles long, with a width of 5 miles, a shore line of 60 miles and an area of 44 square miles; depth in the centre, 6 feet.

*†Is 13 miles long, 9½ miles wide, has a shore line of 51 miles and an area of 100 sq. miles

SASKATCHEWAN—SUNDRY ALTITUDES

	Lat.	Long.	Elevation above mean sea level
White Loon river, crossing 15th base, R. XIX	53 55	104 42	1,639
Grassberry river, crossing 16th base, R.V.	54 14	102 39	923
Torch river, crossing 15th base, sec 34, R. VIII.	53 55	103 06	891
Montreal lake	54 08	105 48	1,609
Candle lake	53 55	105 00	1,618
Bittern lake	53 55	105 43	1,672
Lake of the Rivers	49 16	109 41	2,189
Poonas lake	52 21	107 45	1,756
Lake Lenore	52 35	108 45	1,725
Summit lake	52 16	106 36	1,688
Centre of sec. 32, tp. 50, R. XVI.	53 22	108 15	2,205
Gordon or Bear lake	53 09	107 20	2,192
Meeting lake	53 10	107 35	2,365
Pasquia hills, about	53 00	103 00	2,000
Pipestone lake	50 20	102 56	2,071
Chaplin lake	50 20	106 30	2,189
Johnston lake	50 00	106 00	2,189
Many Island lake	50 07	110 00	2,304
Big Stick lake	50 16	109 20	2,278
Crane lake	50 05	109 05	2,444
Cypress lake	49 28	109 30	3,188
Twelve-mile lake	49 28	106 15	2,479
Devil lake	51 03	107 07	1,911
Dry lake	49 19	109 10	3,031
Green lake	49 28	110 01	3,557
Antelope lake	50 17	108 23	2,328
Rush lake	50 25	107 21	2,298
Hay lake	49 39	109 25	3,754
Fort Walsh	49 35	109 53	3,624
Wood Mountain post.	49 19	106 22	2,875
Wood mountain—			
East summit	49 16	106 25	3,347
West summit	49 13	107 04	3,371
Pinto Horse butte	49 23	107 29	3,331
Whitemud plateau	49 29	108 20	3,428
Old-man-on-his-back plateau	49 12	109 18	3,465
Cypress hills—			
Summit	49 38	109 35	4,243
'The Gap'	49 36	109 41	3,745
Summit	49 37	110 15	4,790
'Head of mountain'	49 37	110 23	4,273
Missouri coteau—			
Near south end of Chaplin lake	50 20	106 10	2,395
At Secretan	50 28	106 25	2,283
Vermilion hills	50 42	106 55	2,255
North of South Saskatchewan river	50 47	107 26	2,347
Amisk lake	54 30	102 15	955
Cumberland lake	54 00	102 15	872
Wapawekka lake	54 58	104 50	1,290
Lac la Ronge	55 00	105 00	1,225
Wevakin lake	54 30	106 00	1,928
Lavallée lake	54 15	106 33	1,775
Green lake	54 10	107 45	1,485
St. Cyr lake	54 15	108 06	1,528
Lawrence lake	54 15	107 00	1,731
Frog portage, about	55 25	103 30	1,150
Black Bear Island lake	55 40	105 45	1,200

SASKATCHEWAN	Lat.	Long.	Elevation above mean sea level
Knee lake.....	55 50	107 10	1,250
Ile-à-la-Crosse lake.....	53 45	107 50	1,378
Buffalo lake.....	56 00	109 00	1,378
Clear lake.....	56 00	108 20	1,378
La Loche lake.....	56 30	109 35	1,577
Methy portage, summit.....	56 40	109 55	1,765
Methy portage, 'Cockscomb'.....	56 40	109 55	1,743
Clearwater river, at end of Methy portage.....	56 42	109 57	1,175
Foster lakes.....	56 35	105 30	1,600
Cree lake.....	57 30	107 00	1,530
Reindeer lake.....	57 30	102 30	1,150
Wollaston lake (on height-of-land between Hudson bay and Arctic ocean).....	58 15	103 30	1,300
Black lake.....	59 15	105 30	1,000

ALBERTA—SUNDRY ALTITUDES

	Lat.	Long.	Elevation above mean sea level
Neutral hills, 'The Nose'.....	52 10	111 10	2,995
Blackfoot hills.....	53 14	110 12	2,425
Wild Horse or de Marron lake.....	49 01	110 10	2,852
Elk-water lake.....	49 40	110 18	4,044
Sounding lake.....	52 10	110 30	2,165
Gooseberry lake.....	52 07	110 15	2,256
Eagle lake.....	51 00	113 20	3,025
Dried-meat lake.....	52 50	112 45	2,254
Whitford lake.....	53 50	112 15	2,045
Bearhills lake.....	52 57	113 36	2,648
Beaver lake.....	53 30	112 30	2,173
Birch lake.....	53 20	111 37	2,107
Wavy lake.....	53 22	112 04	2,260
Hastings lake.....	53 26	112 55	2,380
Cooking lake.....	53 28	113 00	2,120
Buffalo lake.....	52 30	112 55	2,536
Dowling lake.....	51 45	112 00	2,563
Pigeon lake.....	53 00	114 00	2,824
Battle lake.....	52 57	114 10	2,794
Quill lakes.....	52 04	113 10	2,860
Little Fish lake.....	51 23	112 13	2,915
Gull lake.....	52 30	114 00	2,905
Ghostpine lake.....	52 06	113 28	2,910
Buck lake.....	53 00	111 45	2,970
Handhills lake.....	51 30	112 07	2,994
Lac la Biche, high water.....	54 55	112 00	1,788
Hills to east of Lac la Biche.....	54 53	111 45	2,000
Hills between Beaver lake and Missawabi lake.....	54 45	112 00	1,920-2,000
Flat lake.....	54 40	113 53	2,030
Skeleton lake.....	54 38	112 40	2,040
Echo lake.....	54 37	112 12	2,000
Wabiskaw (Loon) river, N. bdy. sec. 33, tp. 104, R. IX.....	58 05	115 27	929
Mikkwa (Red) river, N. bdy. sec. 34, tp. 104, R. VII.....	58 05	115 07	993
Namur lake, N. bdy. tp. 96, R. XVII, W. 5 M.....	57 22	116 11	2,374
Legend lake, N. bdy. tp. 96, R. XVIII, W. 5 M.....	57 22	116 53	2,594
Pouce Coupé river, plateau, 2,400; water.....	55 44	120 08	2,160
South Pine river, plateau, 2,240; water.....	55 52	121 12	1,600
Moberly river.....	55 59	121 35	2,140
Watershed between North Saskatchewan and Athabaska.....	54 12	113 27	2,485
Wintering hills.....	51 14	112 30	3,250
Rocky buttes.....	50 33	112 40	3,100
Porcupine hills.....	50 00	114 00	5,000
Buffalo hills.....	50 35	113 13	3,857
Milk River ridge.....	49 15	112 30	4,200
Black Spring ridge.....	50 00	112 55	3,550
Hand hills.....	51 30	112 17	3,575
Flagstaff hill.....	52 32	111 33	2,500
Beaver hills.....	53 30	113 00	2,525
Knee hills.....	51 40	113 28	3,100
Surcee butte.....	51 40	112 59	3,030
Peace hills.....	53 00	113 25	3,625
Lesser Slave lake, high water.....	55 25	115 30	1,890
Lesser Slave plateau, south of east end of lake.....	55 30	114 45	3,090
Watershed between Peace river and Lesser Slave lake.....	55 52	116 38	2,430

*It is 61 miles long, has an average width of 8 miles, a maximum width of 12 miles, an area of 484 square miles and very shallow, seldom exceeding 10 feet in depth, at low water.

ALBERTA—SUNDRY ALTITUDES	Lat.	Long.	Elevation above mean sea level
Whitefish lake.....	55 50	115 30	2,075
Loon lake.....	56 33	115 30	1,660
Trout lake.....	56 33	114 40	2,130
Claire lake.....	58 40	112 00	700
Long lake.....	56 44	114 42	2,269
Kidney lake.....	56 46	114 33	2,320
Pelican lake.....	55 48	113 25	1,910
Sandy lake.....	55 50	113 30	1,910
Buffalo lake.....	57 35	112 55	2,000
Upper Wabiskaw lake.....	56 05	114 05	1,800
Lower Wabiskaw lake.....	55 57	113 55	1,787
Martin mountain.....	55 30	114 45	2,900
Buffalo Head hills.....	57 30	116 00	2,500
Birch mountain, north end.....	58 00	112 00	2,100
Birch mountain, south end.....	57 15	112 30	2,300
Trout mountain.....	56 45	114 30	2,350
Iroquois lake.....	55 27	117 05	1,830
Kenesis or Sturgeon lake.....	55 07	117 50	2,000
Medicine Lodge hills.....	52 28	114 13	3,525
Noe hill.....	51 08	114 10	3,925
Big hill.....	51 10	114 27	4,275
Black butte.....	53 42	112 00	2,190
Snake Valley marsh.....	50 30	112 53	2,872
Chiniky hill.....	51 06	114 52	5,287
Coxcomb hill.....	51 00	114 54	7,169
Sarcee butte.....	51 02	114 32	4,476
Topknot hill.....	50 53	114 38	5,624
Robinson hill.....	50 54	114 31	4,809
Barwell hill.....	50 47	114 39	6,249
Allsmoke hill.....	50 45	114 41	6,894
Bert hill.....	50 51	114 32	5,077
Nigger John hill.....	50 42	114 27	5,187
Gleason hill.....	50 42	114 35	5,919
Dutchman hill.....	50 39	114 25	4,964
Okotoks hill.....	50 37	114 23	5,038
Forks hill.....	50 39	114 38	5,764
Fish butte.....	50 55	114 31	4,609
Mesa hill.....	50 47	114 33	5,519
Rocky Mountains			
Moose mountain.....	50 56	114 50	7,960
Prairie Creek hill.....	50 53	114 49	7,224
South Twin peak.....	50 49	114 57	8,444
Old Forget-me-not peak.....	50 46	114 48	7,624
Forget-me-not mountain.....	50 45	114 47	7,577
Three-point mountain.....	50 43	114 50	7,959
Hoffmann mountain.....	50 36	114 41	6,572
Junction mountain.....	50 35	114 43	6,729
Ware head.....	50 40	114 44	6,954
Whaleback mountain.....	50 34	114 31	6,275
South Kootenay pass, summit (watershed range).....	49 07	114 08	7,100
North Kootenay pass, summit.....	49 23	114 36	6,774
Crownest pass, railway summit.....	49 38	114 42	4,459
Crownest pass, trail summit.....	49 33	114 44	4,830
Sofa mountain.....	49 02	113 48	8,218
Alderson, mount.....	49 02	113 58	8,833

ALBERTA—SUNDRY ALTITUDES

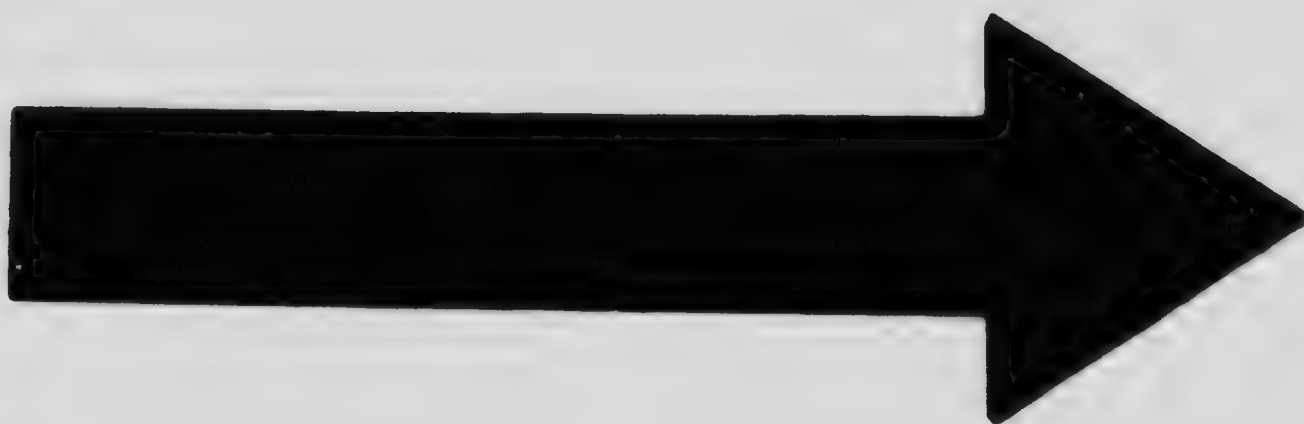
Lat.

Long.

Elevation
above mean
sea level

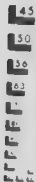
Rocky Mountains

Crandell mount.....	49 05	113 56	7,812
Ptolemy mount.....	49 09	113 58	8,500
Blakiston, mount.....	49 06	114 02	9,600
Lincham, mount.....	49 04	114 02	8,600
Eagle peak.....	49 03	114 03	8,043
Lone mountain.....	49 06	114 08	7,950
Sage Creek mountain.....	49 09	114 08	7,992
Newman peak.....	49 10	114 05	8,600
Loaf mountain.....	49 12	114 06	8,658
Drywood, mount.....	49 15	114 04	8,119
Turret mountain.....	49 16	114 11	8,360
Gladson, mount.....	49 18	114 13	7,777
Middle Kootenay pass.....	49 15	114 22	6,355
Syncline, mount.....	49 21	114 26	8,008
Table mountain.....	49 22	114 15	7,324
Backus mountain.....	49 26	114 16	5,954
Carbon hill.....	49 26	114 22	5,921
McCarty, mount.....	49 24	114 30	7,748
Hillcrest mountain.....	49 33	114 25	7,101
Wolloughby ridge, summit.....	49 35	114 30	6,800
Goulthard, mount.....	49 34	114 34	8,668
French, mount.....	49 33	114 37	9,254
Ptolemy pass.....	49 34	114 41	5,618
Tent mountain.....	49 34	114 42	7,200
Sandy mountain.....	49 37	114 38	7,988
Coleman mountain.....	49 40	114 31	6,325
Wilson, mount.....	49 40	114 39	8,364
Grassy mountain.....	49 42	114 25	6,818
Ma butte.....	49 44	114 31	7,766
Centre peak.....	49 43	114 21	8,355
Allison peak.....	49 45	114 39	8,340
Thunder mountain.....	49 51	114 21	7,716
Kitchener, mount.....	49 45	114 26	9,490
Joire, mount.....	49 54	114 41	9,296
Patricia, mount.....	50 06	114 42	9,680
Sentinel mountain.....	50 16	114 28	7,772
South Twin.....	50 03	114 30	8,198
North Twin.....	50 04	114 30	8,238
Isolated peak.....	50 08	114 29	8,182
Livingstone, mount.....	50 09	114 23	7,946
Windy peak.....	50 11	114 24	7,333
Hailstone butte.....	50 13	114 27	7,785
Plateau mountain.....	50 13	114 31	8,200
Beehive mountain.....	50 04	114 44	8,500
Sheep mountain.....	49 02	113 51	7,825
Wormnest mountain.....	49 43	114 34	9,138
North Fork pass.....	49 55	114 43	6,773
Turtle mountain.....	49 34	114 25	7,236
Kananaskis pass.....	50 37	115 12	6,500
Gould dome.....	49 59	114 39	10,159
Elk mountains.....	50 30	114 45	9,000
Livingstone range.....	50 14	114 30	7,000-8,000
Upper Kananaskis lake.....	50 37	115 10	5,550



MICROCOPY RESOLUTION TEST CHART

(ANSI and ISO TEST CHART No. 2)



APPLIED IMAGE Inc

1653 East Main Street
Rochester, New York 14609 USA
(716) 482-3000 Phone
(716) 288-5989 Fax

ALBERTA—SUNDRY ALTITUDES	Lat.	Long.	Elevation above mean sea level
Rocky Mountains			
Lower Kananaskis lake	50 38	115 08	5,460
Mist [†] mountain	50 34	114 53	10,030
McDougall, mount	50 56	115 04	8,500
Rae, mount	50 40	115 00	10,160
Assiniboine, mount	50 56	115 42	11,860
Kananaskis range	50 45	115 15	8,000-9,200
Wind mountain	50 59	115 14	10,100
Devils Head mountain	51 21	115 16	9,205
Minnewanka lake	51 15	115 25	4,800
Sulphur mountain	51 07	115 32	8,030
Peechee, mount	51 13	115 23	9,615
Inglismaldie, mount	51 15	115 25	9,715
Rundle, mount	51 09	115 30	9,665
Fairholme mountains, north peak	51 09	115 20	9,305
Fairholme mountains, south peak	51 09	115 19	9,205
A. 2.	51 00	115 08	8,180
Goat range, summit	51 01	115 27	9,290
Three Sisters, east peak	51 01	115 20	8,840
Three Sisters, west peak	51 01	115 21	9,734
Grotto mountain	51 05	115 16	8,870
Pigeon mountain	51 02	115 12	7,845
End mountain	51 12	115 08	7,856
Cascade mountain	51 14	115 34	9,826
Stoney Squaw mountain	51 12	115 34	6,160
Aylmer, mount	51 20	115 26	10,365
A. 4.	51 16	115 29	7,570
Edith, mount	51 12	115 39	8,370
Tunnel mountain	51 11	115 33	5,540
C. 6.	51 20	115 37	7,988
K. 6.	51 21	115 31	8,648
B. 6.	51 21	115 33	9,590
L. 6.	51 20	115 33	8,100
F. 6.	51 24	115 39	7,850
Palliser range, summit	51 28	115 37	9,930
P. 6.	51 28	115 39	9,125
Sawback range, summit	51 22	115 49	10,000
A. 8.	51 18	115 40	9,690
G. 8.	51 21	115 45	8,628
Vermilion range, summit	51 28	115 47	9,855
Panther mountain	51 31	115 40	9,595
D. 7.	51 29	115 43	8,405
Vermilion pass	51 13	116 03	5,264
Fatigue mountain	51 02	115 41	9,697
Simpson pass, summit	51 01	115 43	6,650
H. 1.	51 11	115 48	7,980
Pilot mountain	51 11	115 49	9,680
Hole-in-the-wall mountain	51 12	115 42	9,184
Bourgeau mountain	51 08	115 46	9,517
Castle mountain	51 18	115 56	9,030
K. 1.	51 19	115 54	9,380
Copper mountain	51 13	115 53	9,160
Bonnet peak	51 25	115 53	10,290
Douglas, mount	51 31	115 58	11,015
Cyclone peak	51 35	115 58	9,530
Ball, mount	51 09	116 00	10,825

ALBERTA—SUNDRY ALTITUDES

Lat.

Long.

Elevation
above mean
sea level

Rocky Mountains

Tyrrell, mount.....	51 42	115 51	8,846
White, mount.....	51 39	115 51	9,131
Prow mountain.....	51 38	115 54	8,683
Oyster peak.....	51 32	116 01	9,100
McConnell, mount.....	51 39	116 01	10,250
Fossil mountain.....	51 31	116 02	9,655
Baker lake.....	51 29	116 03	7,321
Boom mountain.....	51 15	116 05	9,015
Redoubt mountain.....	51 28	116 05	9,510
Ptarmigan lake.....	51 29	116 05	7,561
Boom lake.....	51 16	116 06	6,210
Ptarmigan peak.....	51 29	116 06	10,058
Consolation pass.....	51 17	116 07	8,300
Richardson, mount.....	51 30	116 07	10,115
Cataract peak.....	51 39	116 07	9,444
Bident, mount.....	51 18	116 09	10,109
Babel, mount.....	51 19	116 10	8,590
Tower of Babel.....	51 20	116 10	7,580
Moraine lake.....	51 19	116 12	6,190
Molar, mount.....	51 37	116 11	9,914
Fay, mount (No. 1).....	51 17	116 09	10,612
Little, mount (No. 2).....	51 18	116 11	10,293
Peak No. 3.....	51 18	116 11	10,088
Peak No. 4.....	51 18	116 12	10,028
Peak No. 5.....	51 18	116 13	10,018
Peak No. 6.....	51 18	116 14	10,320
Tuzo, mount (No. 7).....	51 18	116 13	10,648
Deltaform, mount (No. 8).....	51 18	116 15	11,225
Neptuak, mount (No. 9).....	51 18	116 15	10,607
Peak No. 10.....	51 20	116 16	10,401
Eiffel peak.....	51 20	116 13	10,091
Pinnacle mountain.....	51 20	116 13	10,062
Saddle mountain.....	51 24	116 13	7,783
Fairview mountain.....	51 24	116 13	9,001
Lake Louise.....	51 25	116 13	5,670
Sentinel pass.....	51 21	116 14	8,556
Beehive mountain.....	51 25	116 14	7,430
Signal 16.....	51 33	116 14	9,739
Mirror lake.....	51 25	116 14	6,650
Wenchemna pass.....	51 19	116 15	8,521
Wastach pass.....	51 20	116 15	8,336
Temple, mount.....	51 21	116 15	11,626
The Mitre.....	51 22	116 15	9,470
Aberdeen, mount.....	51 23	116 15	10,340
Haddo peak.....	51 23	116 15	10,073
Lake Agnes.....	51 25	116 15	6,875
St. Piran, mount.....	51 25	116 15	8,681
Hector, mount.....	51 35	116 15	11,125
Pipestone pass.....	51 43	116 16	8,364
Hungabee, mount.....	51 20	116 17	1,447
Lefroy, mount.....	51 22	116 17	11,220
Abbot pass.....	51 22	116 17	9,538
Whyte, mount.....	51 25	116 17	9,776
Niblock, mount.....	51 25	116 17	9,754

"Ten Peaks"

ALBERTA—SUNDRY ALTITUDES	Lat.	Long.	Elevation above mean sea level
Rocky Mountains			
Popes peak.....	51 25	116 17	10,360
Victoria, mount.....	51 23	116 18	11,355
Bosworth, mount.....	51 28	116 21	9,083
Pulpit peak.....	51 34	116 21	8,930
Dolomite peak.....	51 41	116 21	9,818
Bow peak.....	51 38	116 22	9,184
Lake Margaret.....	51 35	116 23	5,924
Lake Katherine.....	51 42	116 22	7,905
Dolomite pass.....	51 42	116 23	7,903
Lake Helen.....	51 41	116 23	7,777
Turquoise lake.....	51 34	116 24	6,577
Daly, mount.....	51 31	116 25	10,332
Balfour, mount.....	51 34	116 27	10,731
Observation peak.....	51 45	116 28	10,204
Olive, mount.....	51 37	116 29	10,260
Baker, mount.....	51 40	116 36	10,441
St. Nicholas peak.....	51 38	116 30	9,606
Portal peak.....	51 39	116 32	9,542
Thompson, mount (Bow river).....	51 40	116 33	10,109
Peyto lake.....	51 44	116 33	6,110
Hector lake.....	51 35	116 25	5,694
Bow lake.....	51 41	116 25	6,420
Bow or Little Fork pass {Can. Pac. Ry. {Wheeler.....	51 41	116 27	6,775
Freshfield, mount.....	51 45	116 56	6,868
Forbes, mount.....	51 48	116 56	10,900
Howse pass.....	51 46	116 45	12,100
Sarbach, mount.....	51 52	116 47	4,500
Murchison, mount.....	51 48	116 37	10,700
Wilson, mount.....	51 58	116 45	11,300
Howse peak.....	51 49	116 40	11,000
Survey peak.....	51 55	116 50	10,800
Lyell, mount.....	51 56	117 05	8,650
Kaufmann, mount.....	51 47	117 03	11,463
Alexander, mount.....	51 58	117 08	10,200
Turret peak.....	52 00	117 15	11,650
Consolation peak.....	51 58	117 09	10,200
Chaba, mount.....	52 12	117 44	11,200
St. Nicholas peak.....	51 37	116 30	10,300
Sullivan peak.....	51 56	116 58	9,606
Bryce, mount.....	51 58	117 20	7,85
Pyramid mountain.....	51 51	116 42	11,686
Saskatchewan, mount.....	52 03	117 05	10,700
Thompson pass.....	52 00	117 20	11,500
Dome mountain.....	52 06	117 19	6,800
Coleman, mount.....	52 06	116 55	11,650
Athabaska, mount.....	52 07	117 11	11
Pinto lake.....	52 10	116 50	5,850
Brazeau lake.....	52 28	117 08	6,300
Wilcox peak.....	52 12	117 14	10,000
Columbia, mount.....	52 05	117 32	12,740
"The Twins".....	52 08	117 28	11,800
Stutfield peak.....	52 12	117 28	11,400
Woolley peak.....	52 17	117 32	11,700
Alberta, mount.....	52 14	117 36	12,000

ALBERTA—SUNDRY ALTITUDES

Lat.

Long.

Elevation
above mean
sea level

Rocky Mountains

Diadem peak.....	52 16	117 31	11,500
Wilcox pass.....	52 09	117 10	7,000
Hooker, mount.....	52 26	118 18	10,505
Brown, mount.....	52 27	118 22	9,050
Athabaska pass.....	52 27	118 20	6,025
Pyramid mountain.....	52 57	118 09	9,000
Geikie, mount.....	52 43	118 22	11,016
Roche de Smet.....	53 08	118 07	8,100
Roche Jacques.....	53 04	117 58	8,500
Roche Miette.....	53 10	117 54	8,500
Bullrush mountain.....	53 18	117 55	7,200
Southesk Cairn mountain.....	52 44	117 00	8,050
Dalhousie, mount.....	52 39	116 45	8,000
Yellowhead, mount.....	52 53	118 33	8,132
Upright, mountain.....	53 11	118 50	9,700
Moose pass.....	53 14	119 00	6,700
Calumet peak.....	53 16	118 59	9,760
Ptarmigan peak.....	53 09	119 03	9,320
Snowbird pass.....	53 08	119 02	8,000
Lynx mountain.....	53 07	119 02	10,471
Adolphus lake.....	53 10	119 06	5,523
Robson pass.....	53 09	119 04	5,550
Gendarme, mount.....	53 13	119 12	9,607
Fitzwilliam, mount.....	52 49	118 27	9,742
Hoodoo peak.....	53 21	118 56	9,000
St. y pass.....	53 22	118 58	7,100
Mumm peak.....	53 11	119 10	9,740
Bess, mount.....	53 23	119 24	11,300
Bess pass.....	53 22	119 23	5,500
Jackpine pass.....	53 24	119 26	6,500
Chown, mount.....	53 26	119 26	11,500
Twin-tree lake.....	53 25	119 07	5,400
Meadow Lake pass.....	53 38	119 42	5,400
Jones pass.....	53 39	119 43	6,200
Beaverdam pass.....	53 42	119 44	5,300
Avalanche pass.....	53 45	119 47	5,300
Sheep Creek pass.....	53 57	119 52	5,200
Jarvis pass.....	54 09	120 01	4,900

BRITISH COLUMBIA—SUNDRY ALTITUDES	Lat.	Long.	Elevation above mean sea level
Rocky Mountains			
Gould dome.....	49 59	114 39	10,159
Eagle peak.....	49 03	114 03	8,043
Sage Creek mountain.....	49 09	114 08	7,992
Middle Kootenay pass.....	49 15	114 22	6,355
French, mount.....	49 33	114 37	9,254
Ptolemy pass.....	49 34	114 41	5,618
Tent mountain.....	49 34	114 42	7,200
Allison peak.....	49 45	114 39	8,340
Joffre, mount.....	49 54	114 41	9,296
Patricia, mount.....	50 06	114 42	9,680
Kirby and Spence, mount.....	49 03	114 15	9,290
Macdonald range.....	49 10	114 45	9,000
The Steeple.....	49 33	115 26	8,340
Beehive mountain.....	50 35	114 44	8,500
Assiniboine, mount.....	50 56	115 42	11,860
Hughes range.....	49 45	115 40	6,000
Selkirk, mount.....	50 55	115 59	7,700
Verandrye mountain.....	50 59	116 02	9,234
Brisco range.....	50 45	116 15	7,500-8,000
Beaverfoot range.....	51 10	116 40	8,000-9,000
Waputcheh mountains.....	51 30	116 20	10,000
South Kootenay pass, summit, watershed range.....	49 07	114 08	7,100
North Kootenay pass, summit, watershed range.....	49 23	114 36	6,774
“ “ “ west summit.....	49 20	114 55	6,850
Crowanest pass, railway summit.....	49 38	114 42	4,459
“ “ “ trail summit, watershed range.....	49 33	114 44	4,830
“ “ “ west summit, on trail.....	49 29	114 54	5,500
Tent mountain.....	49 33	114 42	7,163
Taylor, mount.....	49 32	114 46	7,358
North Fork pass.....	49 55	114 43	6,773
Simpson pass.....	51 02	115 41	6,650
Vermilion pass.....	51 13	116 03	5,264
White Mans pass.....	50 47	115 30	6,807
Kananaskis pass.....	50 37	115 12	6,500
Sinclair pass.....	50 41	116 00	4,662
Boom, mount.....	51 15	116 05	9,015
Storm, mount.....	51 12	116 00	10,309
Ball, mount.....	51 09	116 00	10,825
Whymper, mount.....	51 13	116 06	9,319
Vermilion peak.....	51 09	116 07	8,682
Bident, mount.....	51 17	116 09	10,109
“ “ “ (Fay, mount (No. 1)).....	51 17	116 09	10,612
“ “ “ (Little, mount (No. 2)).....	51 18	116 11	10,293
“ “ “ (Peak No. 3).....	51 18	116 11	10,088
“ “ “ (Peak No. 4).....	51 18	116 12	10,028
“ “ “ (Peak No. 5).....	51 18	116 13	10,018
“ “ “ (Peak No. 6).....	51 18	116 14	10,320
“ “ “ (Tuzo, mount (No. 7)).....	51 18	116 13	10,648
“ “ “ (Deltaform, mount (No. 8)).....	51 18	116 15	11,225
“ “ “ (Neptuak, mount (No. 9)).....	51 18	116 15	10,607
“ “ “ (Peak No. 10).....	51 20	116 16	10,401
Wenkchemna pass.....	51 19	116 16	8,521
Hungabee, mount.....	51 20	116 17	11,247
Lefroy, mount.....	51 22	116 17	11,220
Abbot pass.....	51 22	116 17	9,588

BRITISH COLUMBIA—SUNDRY ALTITUDES

Lat. Long. Elevation
above mean
sea level

Rocky Mountains

Popes peak	51 25	116 17	10,360
Opabin pass	51 20	116 18	8,450
Biddle, mount	51 20	116 18	10,876
Victoria, mount	51 23	116 18	11,355
Huber, mount	51 23	116 18	11,041
McArthur lake	51 20	116 19	7,359
Yukness, mount	51 21	116 19	9,342
Wiwaxy peaks	51 22	116 19	8,863
Helmet mountain	51 11	116 20	10,287
Park, mount	51 20	116 20	9,671
Schaffer, mount	51 21	116 21	8,824
Sharp, mount	51 12	116 21	9,994
Bosworth, mount	51 28	116 21	9,083
Paget peak	51 28	116 22	8,407
Zinc mountain	51 11	116 23	9,800
Odaray, mount	51 22	116 23	10,165
Cathedral mountain	51 24	116 23	10,454
Cathedral crag	51 24	116 24	10,071
Mount Goodsir, south tower	51 12	116 24	11,676
Mount Goodsir, north tower	51 13	116 25	11,555
Mollison, mount	51 08	116 24	9,677
Ogden, mount	51 28	116 25	8,795
Niles, mount	51 30	116 25	9,742
Daly, mount	51 31	116 25	10,332
Owen, mount	51 19	116 26	10,118
Duchesnay pass	51 22	116 26	8,737
Stephen, mount	51 24	116 26	10,485
Duchesnay, mount	51 22	116 27	9,592
Dennis pass	51 23	116 27	7,448
Balfour, mount	51 34	116 27	10,731
Field, mount	51 26	116 28	8,645
Wapta, mount	51 27	116 28	9,106
Balfour pass	51 35	116 28	8,400
Garnet, mount	51 12	116 29	7,597
Hanbury peak	51 15	116 29	10,267
Dennis, mount	51 23	116 29	8,326
Burgess, mount	51 26	116 29	8,463
Burgess pass	51 26	116 29	7,150
Yoho pass	51 28	116 29	6,020
Olive, mount	51 37	116 29	10,200
Chancellor peak	51 13	116 30	10,731
Yoho lake	51 28	116 30	5,944
Michael peak	51 29	116 30	8,334
St. Nicholas peak	51 37	116 30	9,606
Gordon, mount	51 37	116 30	10,336
Vaux, mount	51 16	116 32	10,881
'The Vice President'	51 30	116 32	10,049
Hurd, mount	51 17	116 33	9,265
President pass	51 30	116 33	9,459
'The President'	51 30	116 34	10,287
Whaleback mountain	51 33	116 34	8,559
Emerald pass	51 30	116 34	8,889
Yoho, mount	51 34	116 34	9,300
Emerald peak	51 27	116 35	8,332
Pollinger, mount	51 32	116 35	8,998

BRITISH COLUMBIA—SUNDRY ALTITUDES	Lat	Long.	Elevation above mean sea level
Rocky Mountains			
Isolated peak.....	51 33	116 35	9,224
Marpole, mount.....	51 29	116 36	9,822
Carnarvon, mount.....	51 28	116 36	9,964
Collie, mount.....	51 37	116 36	10,315
Ayesha peak.....	51 38	116 36	10,026
Yoho peak.....	51 34	116 34	9,046
Baker, mount.....	51 40	116 36	10,441
Kerr, mount.....	51 31	116 37	9,384
McArthur, mount.....	51 33	116 37	9,882
Habel, mount.....	51 36	116 37	10,361
Baker, mount.....	51 40	116 37	10,443
Kiwetinok peak.....	51 32	116 38	9,512
King, mount.....	51 21	116 39	9,456
Amiskwi pass.....	51 36	116 41	6,535
Deville mount.....	51 23	116 42	9,484
Hunter, mount.....	51 18	116 42	8,652
Amiskwi peak.....	51 32	116 42	9,249
Twin lakes.....	51 33	116 44	6,950
Ogre peak.....	51 33	116 44	9,279
Otto pass.....	51 31	116 45	6,950
Spike peak.....	51 26	116 48	9,583
Sea-lion mountain.....	51 31	116 49	9,640
Redburn peak.....	51 27	116 53	9,022
Moberly peak.....	51 22	116 58	7,721
Laussedat, mount.....	51 34	116 58	10,015
O'Hara lake.....	51 21	116 19	6,664
Sherbrooke lake.....	51 27	116 23	5,908
Mummery, mount.....	51 36	116 48	10,908
Freshfield, mount.....	51 40	116 56	10,900
Baker pass.....	51 45	116 43	6,700
Kauffmann, mount.....	51 47	117 03	10,206
Alexander, mount.....	51 58	117 08	11,650
Turret peak.....	52 00	117 15	10,000
Consolation peak.....	51 58	117 09	11,000
Chaba, mount.....	52 12	117 44	10,000
Howse peak.....	51 49	117 40	10,000
Howse pass.....	51 46	116 45	10,000
Bush peak.....	51 52	117 12	10,000
Goat peak.....	51 52	117 26	8,000
Lyell, mount.....	51 56	117 05	11,463
Bryce, mount.....	51 58	117 20	11,686
Thompson pass.....	52 00	117 20	6,800
Dome mountain.....	52 06	117 19	11,850
Columbia, mount.....	52 05	117 32	12,740
Fortress lake.....	52 23	117 55	4,330
Fortress lake, peak near west end.....	52 20	118 02	11,450
Hooker, mount.....	52 26	118 18	10,505
Brown, mount.....	52 27	118 22	9,050
Athabaska pass.....	52 27	118 20	6,025
Thompson, mount (Fraser river).....	52 42	119 08	8,790
Geikie, mount.....	52 43	118 22	11,016
Fitzwilliam, mount.....	52 50	118 25	9,742
Yellowhead, mount.....	52 53	118 33	8,132
Mowat, mount.....	52 57	118 43	9,293

BRITISH COLUMBIA—SUNDRY ALTITUDES

Lat.

Long.

Elevation
above mean
sea level

Rocky Mountains

The Colonel mountain.....	53 05	118 47	9,166
Upright mountain.....	53 11	118 50	9,700
Trios peak.....	53 05	118 52	8,075
Red pass.....	53 01	119 00	7,000
Moose pass.....	53 14	119 00	6,700
Kain mountain.....	53 03	119 02	9,392
Lynx mountain.....	53 07	119 02	10,471
Snowbird pass.....	53 08	119 02	8,000
Ptarmigan peak.....	53 09	119 03	9,320
Resplendent, mount.....	53 05	119 04	11,173
Robson pass.....	53 09	119 04	5,550
The Dome.....	53 06	119 06	10,098
Rearguard mountain.....	53 08	119 06	9,000
Robson, mount.....	53 07	119 08	13,068
The Helmet.....	53 07	119 08	11,160
Mumm peak.....	53 12	119 08	9,740
Berg lake.....	53 08	119 09	5,506
Kinney lake.....	53 05	119 11	3,259
Little Grizzly peak.....	53 04	119 15	8,953
Whitehorn mountain.....	53 09	119 15	11,101
Longstaff, mount.....	53 11	119 22	10,530
Bess, mount.....	53 23	119 24	11,300
Bess pass.....	53 22	119 23	5,500
Jackpine pass.....	53 24	119 26	6,500
Chown, mount.....	53 26	119 26	11,500
Twin-tree lake.....	53 25	119 07	5,400
Meadow Lake pass.....	53 38	119 42	5,400
Beaverdam pass.....	53 42	119 44	5,300
Avalanche pass.....	53 45	119 47	5,300
Sheep Creek pass.....	53 57	119 52	5,200
Jarvis pass.....	54 09	120 01	4,900
Mammoth mountain.....	53 17	119 59	6,000
Teare mountain.....	53 18	120 03	7,000
Bagg, mount.....	53 38	120 14	8,500
Alexander Mackenzie or Kitchi, mount.....	54 02	120 16	11,000
Ida, mount.....	54 07	120 08	10,000
Trident peak.....	56 41	124 01	8,000
Laurier peak.....	56 48	123 44	7,000
Laurier pass.....	56 50	123 42	5,300
Cyclops peak.....	57 27	124 16	8,000

Selkirk Mountains

Fisher mountain.....	49 39	115 29	9,245
Baker, mount.....	49 28	115 37	7,100
Yahk mountain.....	49 12	115 43	7,000
Pyramid mountain.....	49 44	116 15	8,500
Hungry peak.....	49 45	116 32	8,600
Copper mountain.....	49 49	116 31	8,360
Davie mountain.....	49 29	116 42	7,817
Sphinx mountain.....	49 38	116 39	8,370
Hooker, mount.....	49 40	116 40	8,055
Crawford, mount.....	49 46	116 44	7,700
Bluebell mountain.....	49 45	116 47	7,135

BRITISH COLUMBIA—SUNDRY ALTITUDES	Lat.	Long.	Elevation above mean sea level
Selkirk Mountains			
Loki, mount	49 50	116 45	9,120
Duncan lake	50 20	117 00	1,800
Trout lake	50 30	117 30	400
Goldie mountain	50 25	116 08	8,700
Brewer, mount	50 23	116 12	9,140
Nelson, mount	50 27	116 16	10,772
Coppercrown peak	50 18	116 19	10,218
Slade, mount	50 29	116 20	10,559
Monument peak	50 24	116 24	10,060
Delphine, mount	50 28	116 25	11,076
Farnham, mount	50 29	116 27	11,342
Toby, mount	50 15	116 27	10,000
Earl Grey, mount	50 20	116 29	10,200
Jumbo mountain	50 24	116 32	11,217
Law, mount	50 31	116 21	9,746
Bruce, mount	50 31	116 12	8,050
Forster, mount	50 39	116 16	8,112
Stockdale, mount	50 34	116 33	10,100
Caribou peak	51 08	117 15	8,499
Drewry cairn	51 13	117 15	8,994
Spillimacheen mountain	51 13	117 17	6,783
Copperstain mountain	51 17	117 17	6,613
Bald mountain, east	51 15	117 19	7,536
Bald mountain, north	51 18	117 21	7,663
Duncan, mount	51 02	117 18	10,582
Beaver mountain	51 02	117 21	10,644
Sugarloaf mountain	51 03	117 21	10,732
Beaver Overlook, mount	51 07	117 21	9,901
Topham, mount	51 09	117 21	9,478
Grizzly creek, west peak	51 19	117 21	7,348
Grand mountain	51 05	117 23	10,832
Wheeler, mount	51 06	117 23	11,023
Macoun, mount	51 11	117 23	9,988
Selwyn, mount	51 05	117 24	11,013
Kilpatrick, mount	51 05	117 25	10,624
Augustine peak	51 08	117 25	10,762
Hasler peak	51 09	117 25	11,113
Feux peak	51 09	117 25	10,982
Sir Donald, mount	51 16	117 25	10,808
Cyprian peak	51 08	117 26	10,712
Dawson, mount	51 09	117 26	10,982
Fox, mount	51 10	117 26	10,572
Lookout, mount	51 14	117 26	8,219
Terminal peak	51 15	117 26	9,991
Beavermouth mountain, south peak	51 28	117 26	7,251
Michel peak	51 09	117 26	10,084
Mount Geikie, north peak	51 12	117 27	8,014
Perley rock	51 15	117 27	7,808
Uto peak	51 17	117 27	9,610
Eagle peak	51 17	117 27	9,353
Avalanche mountain	51 17	117 27	9,387
Macdonald, mount	51 19	117 27	9,482
Purity, mount	51 06	117 28	10,457
Asulkan pass	51 11	117 28	7,710
Donkin, mount	51 09	117 29	9,694

BRITISH COLUMBIA—SUNDRY ALTITUDES

Lat.

Long.

Elevation
above mean
sea level

Selkirk Mountains

Leda, mount.....	51 12	117 29	9,133
Pellux, mount.....	51 12	117 29	9,176
Castor, m. int.....	51 12	117 29	9,108
Cascade summerhouse.....	51 16	117 29	5,252
The Dome.....	51 13	117 30	9,029
The Rampart.....	51 14	117 30	8,476
Sifton, mount.....	51 20	117 30	9,643
Tupper, mount.....	51 20	117 30	9,229
Hermit crest.....	51 22	117 30	9,010
Swanzy, mount.....	51 12	117 31	9,564
Afton, mount.....	51 14	117 31	8,423
Abbott, mount.....	51 14	117 31	8,081
Swiss peak.....	51 22	117 31	10,515
Hermit mountain.....	51 22	117 31	10,194
Clarke peak.....	51 12	117 32	9,937
Napoleon, mount.....	51 17	117 32	7,737
Fleming peak.....	51 21	117 32	10,371
Grant peak.....	51 27	117 32	10,216
Shaughnessy, mount.....	51 23	117 32	9,380
Bonney, mount.....	51 12	117 32	10,205
Cheops, mount.....	51 17	117 32	8,506
Rogers peak.....	51 21	117 33	10,536
McBean, mount—			
Findhorn peak.....	51 06	117 33	9,501
Tomatin peak.....	51 06	117 34	9,445
Ross peak.....	51 15	117 34	7,718
Grizzly, mount.....	51 19	117 34	9,061
Smart, mount.....	51 12	117 35	9,517
Green, mount.....	51 14	117 35	8,860
Ursus Minor, mount.....	51 19	117 35	9,026
McNicoll, mount.....	51 27	117 35	8,745
Oliver, mount.....	51 10	117 36	8,379
Ursus Major, mount.....	51 18	117 36	8,938
Cougar mountain.....	51 16	117 37	7,882
Pearce, mount.....	51 29	117 37	9,419
Bagheera mountain.....	51 17	117 38	9,096
Catamount.....	51 17	117 38	8,956
Mount Illicilliwaet, south peak.....	51 11	117 45	7,633
Corbin peak.....	51 15	117 46	8,892
Albert Cañon, east peak.....	51 09	117 48	7,276
Moose Creek, east peak.....	51 08	117 49	7,825
Albert peak.....	51 03	117 52	9,998
Fang rock.....	51 17	117 52	9,302
North Albert peak.....	51 03	117 53	9,562
Silver Creek mountain, east peak.....	51 11	117 53	7,584
North Twin mountain.....	51 03	117 54	8,033
Twin Creek, west peak.....	51 00	117 59	7,568
Twin Butte mountain.....	51 02	117 59	6,996
Tilley, mount.....	50 57	118 05	8,064
Clachnacoodin range, highest.....	51 29	117 56	9,000
Clachnacoodin mountain, west peak.....	51 04	118 05	7,983
Cameron, mount.....	50 55	118 04	8,562
Mackenzie, mount.....	50 58	118 06	8,064
Six-mile Creel pass.....	51 35	117 37	7,000
Sentry mount.....	51 40	117 39	8,330
Cherub, mount.....	51 33	117 42	9,740

BRITISH COLUMBIA—SUNDRY ALTITUDES	Lat.	Long.	Elevation above mean sea level
Belkirk Mountains			
Iconoclast, mount.	51 27	117 46	10,646
Cornice mountain.	51 39	117 46	8,988
Palmer, mount.	51 40	117 47	9,800
Stockner, mount.	51 43	117 47	9,150
Sonata, mount.	51 36	117 49	9,800
Wotan, mount.	51 44	117 50	9,790
Guardian mountain.	51 40	117 51	9,500
Gibraltar, mount.	51 44	117 51	9,590
Azimuth peak.	51 42	117 52	7,921
Sir Sandford, mount.	51 39	117 52	11,590
Minaret mountain.	51 39	117 53	9,210
Vidette mountain.	51 39	117 53	9,850
Ravelin mountain.	51 40	117 53	8,950
Pioneer peak.	51 44	117 53	10,660
Gothics, mount.	51 44	117 53	10,610
Adamant mountain.	51 44	117 54	10,980
Blackfriars, mount.	51 4	117 54	10,580
Argentine, mount.	51 33	117 55	9,900
Silvertip, mount.	51 42	117 55	9,450
Belvedere, mount.	51 43	117 55	9,830
Austerity, mount.	51 44	117 55	10,960
Pass, Dominick creek to North fork of Illicilliwaet river.	51 26	117 56	5,760
Sorcerer, mount.	51 27	117 56	10,410
Citadel, mount.	51 38	117 56	9,580
Redan, mount.	51 42	117 56	9,530
Silvertip pass.	51 43	117 56	8,500
Redan pass.	51 40	117 57	8,000
Moberly pass (head of Gold river).	51 37	117 58	5,825
Holway, mount.	51 24	118 00	10,002
Goldstream, mount.	51 39	118 04	9,310
Incomappleux, mount.	50 40	117 46	8,840
Burniere, mount.	50 42	117 43	8,360
Sproat, mount.	50 31	117 51	8,020
Carnes, mount.	51 42	118 07	10,000
Moloch, mount.	51 41	118 57	10,198
Graham, mount.	51 41	117 55	9,740
Anstey, mount.	51 45	117 56	9,081
Copeland, mount.	51 14	118 25	8,470
Satan rock.	51 17	118 52	9,302
Mica mountain.	52 52	119 30	9,600
Kootenay District			
Paddy peak.	49 59	117 08	8,162
Silver ridge.	49 57	117 14	7,026
Kokanee mountain.	49 45	117 08	9,400
Yuill, mount.	49 40	117 06	7,300
Balfour knob.	49 40	117 00	7,406
Grohman mountain.	49 37	117 19	7,550
Nelson, mount.	49 32	117 18	5,800
Slocan ridge.	49 32	117 33	6,650
Irvine, mount.	49 33	116 57	7,765
Lasca, mount.	49 30	117 02	7,804
Drewry mountain.	42 29	116 53	7,817

BRITISH COLUMBIA—SUNDRY ALTITUDES

Lat.

Long.

Elevation
above mean
sea level

Kootenay District

Ymir mountain.....	49 26	117 07	7,920
Elise mountain.....	49 21	117 11	6,960
McGregor mountain.....	49 21	116 51	7,320
Burnett mountain.....	49 17	116 52	7,500
Steeple mountain.....	49 15	116 48	7,590
Rykert mountain.....	49 02	116 44	6,520
North Star mountain.....	49 02	116 52	6,510
Irene mountain.....	49 03	117 57	6,750
Lost mountain.....	49 03	117 50	7,002
Wall mountain.....	49 11	116 59	7,690
Toad mountain.....	49 25	117 19	7,334
Red mountain (Nelson)...	49 24	117 20	7,350
Connor mountain.....	49 24	117 09	7,050
Coppe mountain.....	49 24	117 07	7,460
Reco mountain.....	50 00	117 11	8,560
Blue ridge.....	50 04	117 07	6,020
Siwash mountain.....	49 21	117 12	7,700
Dominion mountain.....	49 21	117 20	7,430
Grassy mountain.....	49 18	117 29	6,670
Aaron hill.....	49 17	117 32	5,100
Heinze mountain.....	49 09	117 40	4,950
Beaver mountain.....	49 08	117 26	6,400
Erie mountain.....	49 53	117 22	5,198
Whatsan lakes.....	50 00	118 05	2,100
Scalping Knife mountain....	50 05	117 51	6,915
Silver mountain.....	50 04	117 41	7,795
Ingersoll mountain.....	50 03	117 59	7,240
Naumulten mountain.....	49 52	117 57	8,010
Vingolf mountain.....	50 02	117 33	8,415
Niord, mount.....	49 59	117 34	8,815
Denver, mount.....	49 58	117 30	8,815
Hela, mount.....	49 54	117 35	8,915
Demers, mount.....	49 53	117 40	8,640
Grey Wolf mountain.....	49 58	117 41	7,440
Urd, mount.....	49 52	117 42	8,640
Bor, mount.....	49 50	117 44	9,073
Woden, mount.....	49 50	117 47	8,871
Gimli, mount.....	49 46	117 38	9,215
Hilda, mount.....	49 48	117 55	8,630
Gladshiem mountain.....	49 47	117 36	9,275
Rinda mountain.....	49 44	117 43	8,275
Freya, mount.....	49 42	117 49	8,382
Heimdal mountain.....	49 41	117 46	8,215
Mista mount.....	49 41	117 59	8,255
Sangrida, mount.....	49 39	117 59	8,270
Perry ridge.....	49 36	117 38	7,020
Airy mountain.....	49 33	117 50	8,540
Stanley mountain.....	49 32	117 56	7,925
Norns mountain, west summit.....	49 30	117 47	8,115
Deer Park mountain.....	49 29	118 03	3,930
Ladybird mountain.....	49 25	117 48	7,567
Pine ridge.....	49 24	117 55	5,900
Sentinel mountain.....	49 22	117 36	5,170
Shields mountain.....	49 21	118 00	6,400
Gem hill.....	49 18	117 55	5,490

BRITISH COLUMBIA—SUNDRY ALTITUDES	Lat.	Long.	Elevation above mean sea level
Kootenay District			
Robson ridge, west end.....	49 19	117 53	5,290
Mackie mountain.....	49 15	117 48	7,230
Red mountain (Rossland).....	49 05	117 48	5,150
Champion lakes.....	49 11	117 37	3,550
Solway hill.....	49 12	117 47	4,900
Talus hill.....	49 06	117 47	3,070
Lookout mountain.....	49 04	117 42	4,420
Tamarack mountain.....	49 02	117 48	4,300
Lake mountain.....	49 02	117 44	5,464
O.K. mountain.....	49 04	117 51	5,090
Spokane mountain.....	49 05	117 51	6,405
Granite mountain.....	49 06	117 51	6,665
Kirkup mountain.....	49 07	117 51	8,505
Malde mountain.....	49 01	117 48	3,795
Violin lake.....	49 02	117 42	3,090
Stags Leap Peak.....	49 03	117 10	7,066
Toby, mount.....	49 02	117 05	7,660
Yale District			
Osoyoos lake.....	49 00	119 25	913
Whitworth peak.....	49 04	121 13	7,246
Silver peak.....	49 08	121 30	7,471
Tamihy peak.....	49 01	121 36	7,950
McGuire, mount.....	49 02	121 46	6,630
Chilukweyuk mountain.....	49 05	121 30	6,570
Allison or South pass.....	49 15	120 47	5,808
Striped mountain.....	49 22	120 05	2,700
Okanagan mountain.....	49 45	119 30	3,740
Hozameen range.....	49 04	121 01	6,360
Shawatum, mount.....	49 07	121 04	7,000
Jackson, mount.....	49 32	120 46	4,595
Otter lake, high water, 2,562; water (Jan., 1906).....	49 33	120 46	2,557
Lodestone mountain.....	49 28	120 50	6,378
Olivine, mount.....	49 31	120 53	6,087
Britton, mount.....	49 31	120 56	4,600
Jones lake.....	49 29	121 33	2,060
Chilliwack lake.....	49 04	121 27	2,130
Cheam, mount.....	49 11	121 41	6,925
Shuswap District			
Monashee mountain.....	50 08	118 27	5,900
Silver hills, north.....	50 22	118 39	5,900
Silver hills, south.....	50 19	118 42	5,000
Park mountains, highest.....	50 32	118 37	7,450
Mabel mountain.....	50 41	118 34	7,060
Joss mountain.....	50 49	118 27	7,500
Griffin mountain.....	50 54	118 40	7,120
Hunters range, highest.....	50 46	118 50	7,460
Ida mount.....	50 38	119 18	5,320
Bastion mountains, highest.....	50 50	119 09	5,360
Ta-haet-kun mountain.....	50 16	119 44	6,630
Bouleau mountain.....	50 19	119 41	6,000
Monte hills, highest.....	50 27	119 57	2,580

BRITISH COLUMBIA—SUNDRY ALTITUDES

Lat. Long. Elevation
above mean
sea level

Shuswap District

Aberdeen mountain.....	50 21	119 04	6,100
Trinity hills, highest.....	50 29	118 53	4,750
Camel Hump mountain.....	50 14	118 50	4,180
Es-te-kwa-lan mountain.....	50 31	119 39	5,260
Martin mountain.....	50 36	119 45	5,190
Bobbie Burns mountain.....	50 26	118 50	5,000
Tsal-kom mountain.....	50 55	119 43	5,000
Tod, mount.....	50 53	119 55	7,230
Queest mountain, north.....	51 03	118 48	6,682
Queest mountain, south.....	51 02	118 48	7,081
Begbie, mount.....	50 53	118 17	8,946
Hall, mount.....	50 40	118 05	7,360
Macpherson, mount.....	50 56	118 18	7,893
Sandy mountain.....	51 05	119 13	7,020
Lichen mountain.....	51 09	119 17	6,850
Adams plateau, summit.....	51 03	119 34	6,000
Puk-e-ash-un mountain.....	51 12	119 14	7,390
Nisconlith lake.....	50 47	119 46	1,670
Adams lake.....	51 10	119 35	1,357
East Barrière lake.....	51 15	119 47	2,250
Swan lake.....	50 19	119 15	1,285
Little Shuswap lake, high water.....	50 19	119 40	1,146
Long lake.....	50 10	119 20	1,275
Sugar lake.....	50 25	118 30	1,980
Mabel lake.....	50 30	118 45	1,270
Chaperon lake.....	50 12	120 03	3,060
Pinaos lake.....	50 25	119 36	3,120
White lake.....	50 53	119 15	1,560
Mara, mount.....	50 46	118 52	7,200
Granite mountain.....	50 46	119 24	5,010
Fly hill.....	50 44	119 29	5,750

Kamloops District

Young lake (expansion of Bonaparte river).....	51 15	121 00	3,000
Bonaparte lake.....	51 15	120 30	3,760
Stump lake.....	50 22	120 22	2,450
Loon lake.....	51 06	121 15	2,820
Big Bar lake.....	51 19	121 47	3,630
Pavilion lake.....	50 50	121 44	2,652
Mamit lake.....	50 23	120 49	3,270
Gnawed mountain.....	50 25	120 59	5,720
Choowhels mountain.....	50 32	120 35	6,200
Coal hill.....	50 37	120 22	3,470
Nicoamen plateau.....	50 20	121 18	5,340
Lytton mountains.....	50 13	121 29	6,520
Arthurs seat.....	50 25	120 25	5,500
Nicola plateau.....	50 15	121 35	5,000
Iron mountain.....	50 02	120 46	5,280
Dufferin hill.....	50 40	120 24	2,830
Savona mountain.....	50 42	120 49	4,820
Tranquille plateau.....	50 53	121 34	5,040
Porcupine ridge.....	50 59	120 34	6,030
Siiwhoiakun mountain.....	51 00	120 30	6,030
Skoatl point.....	51 00	120 25	5,450

BRITISH COLUMBIA—SUNDRY ALTITUDES	Lat.	Long.	Elevation above mean sea level
Kamloops District			
Skwilkwakwil mountain.....	50 20	121 05	5,660
Mi-mem-oooh mountain.....	50 11	121 12	6,030
Spaist mountain.....	50 23	121 04	5,780
Glossy, mount.....	50 37	121 09	6,150
Cinder hill.....	50 34	121 08	5,070
Akasik mountain.....	50 14	121 45	8,660
Skihst mountain.....	50 11	121 47	9,660
Pe-tloosh-kwo-hap mountain.....	50 13	121 51	9,180
Stein mountain.....	50 20	121 47	8,900
Botanie mountain.....	50 22	121 36	6,620
Murray, mount.....	50 31	121 32	6,880
Forge mountain.....	50 34	121 00	5,500
White mountain.....	50 36	121 26	6,000
Lookout point.....	50 33	121 28	6,600
Blustry mountain.....	50 36	121 40	7,640
Cairn mountain.....	50 38	121 40	7,650
Askom mountain.....	50 29	121 49	8,150
Brew, mount.....	50 37	121 55	7,300
McLean, mount.....	50 43	122 00	7,600
Chipooiin mountain.....	50 44	121 43	7,070
Cornwall hills.....	50 41	121 26	6,600
Fountain ridge.....	50 40	121 51	5,820
Arrowstone hills, south summit.....	50 55	121 13	5,740
Pavilion mountains, north summit.....	50 58	121 41	6,920
Martley, mount.....	50 48	121 43	6,370
Tsilt salt ridge.....	50 59	121 37	6,300
Soues, mount.....	51 04	121 43	7,000
Bowman, mount.....	51 15	121 53	7,500
Big Bar P.O.....	51 18	122 01	3,300
Clinton, Junction creek, at trail crossing.....	51 05	121 34	3,040
Bonaparte river, at mouth of Junction creek.....	51 07	121 28	2,225
Bonaparte river, at mouth of Cache creek.....	50 48	121 19	1,460
Boyd's (70-mile House).....	51 19	121 23	3,800
Poison hill.....	51 05	120 25	5,370
Scarped mountains, north.....	50 21	121 28	5,800
Scarped mountains, south.....	50 19	121 29	5,860
Paul peak.....	50 42	120 17	3,570
Fountain peak.....	50 43	121 53	5,640
Camelsfoot mountains.....	50 52	122 00	7,300
Trachyte hills.....	50 48	121 29	5,200
Toby lake (Half-moon lake).....	51 26	120 32	3,854
Lac des Roches.....	51 28	120 32	3,729
Macheté lake.....	51 23	120 32	3,719
Bonaparte lake.....	51 11	120 31	3,834
Lillooet District			
Tatlow, mount.....	51 24	123 51	10,100
Tullin, mount.....	51 36	124 10	6,600
Lillooet hills.....	51 47	124 12	5,900
New Westminster District			
Lower Lillooet lake.....	49 18	122 28	370
Upper Lillooet lake.....	50 15	122 30	372
Stave lake.....	49 22	122 18	234
Chehalis lake.....	49 26	122 00	717

BRITISH COLUMBIA—SUNDRY ALTITUDES

Lat.

Long.

Elevation
above mean
sea level

Vancouver Island

Finlayson, mount.....	48 29	123 32	1,342
Langford lake.....	48 27	123 32	208
Braden, mount.....	48 27	123 36	1,533
Blinkhorn hill.....	48 23	123 34	797
Empress mountain.....	48 28	123 40	2,184
Shepherd, mount.....	49 25	123 40	1,758
Garibaldi hill.....	48 20	123 34	549
Signal hill.....	48 20	123 39	735
Muir, mount.....	48 29	123 52	2,905
Trap mountain.....	48 26	123 47	2,304
Broom hill.....	48 23	123 45	905
Elk lake.....	48 32	123 24	196
Lost lake.....	48 29	123 21	88
Swan lake.....	48 28	123 22	50
Prospect lake.....	48 31	123 27	150
Sooke lake.....	48 34	123 40	560
Goldstream balancing reservoir.....	48 30	123 38	1,505
" reservoir No. 1.....			1,125
" reservoir No. 2.....			1,560
" reservoir No. 3 (bar.).....			1,770
Metchosin hill.....	48 24	123 32	812
McDonald peak.....	48 26	123 35	1,430
Saddle mountain.....	48 26	123 39	1,937
Conspicuous peak.....	48 28	123 40	2,188
Wolf hill.....	48 28	123 35	900
Sheepshanks hill.....	48 34	123 34	960
Mill hill.....	48 27	123 29	650
Leading peak.....	48 29	123 33	1,346
Douglas, mount.....	48 30	123 21	725
Maltby lake.....	48 30	123 27	166
Wark, mount.....	48 33	123 28	1,445
Langford lake.....	48 27	123 32	208
Finlayson, mount.....	48 29	123 32	1,342
Empress mountain.....	48 28	123 40	2,184
Shepherd, mount.....	48 26	123 39	1,758
Trap mountain.....	48 27	123 48	2,304
Muir, mount.....	48 29	123 52	2,905
Thetis lake.....	48 28	123 27	163
Saanich hill.....	48 31	123 26	669
Work, mount.....	48 32	123 30	1,440
Fane, mount.....	48 34	123 29	1,300
Jeffrey, mount.....	48 36	123 33	1,800
Wood, mount (Saanich inlet).....	48 37	123 35	1,600
Newton, mount.....	48 37	123 28	800
Saddle hill.....	48 42	123 28	550
House cone.....	48 40	124 33	2,500
Poett heights.....	48 52	124 58	2,753
Pachena cone.....	48 52	125 03	2,223
Blenheim, mount.....	48 55	124 57	2,408
Hecate, mount.....	49 01	124 58	3,440
Parsons, mount.....	49 00	124 43	4,554
Grey, mount.....	49 00	124 41	4,768
Spencer, mount.....	49 04	124 39	4,718
Douglas, mount.....	49 08	124 39	4,245

BRITISH COLUMBIA—SUNDRY ALTITUDES	Lat.	Long.	Elevation above mean sea level
Vancouver Island			
Moriarty, mount.....	49 08	124 28	5,185
Arrowsmith, mount.....	49 13	124 36	5,976
Arbutus summit.....	49 13	124 51	1,702
Hankin, mount.....	49 11	124 48	2,279
Turret mountain.....	49 04	125 11	1,782
Broughton peaks, north.....	49 00	125 14	3,414
Broughton peaks, south.....	48 59	125 14	3,070
Ozzard, mount.....	48 58	125 30	2,270
Frederick, mount.....	48 59	125 31	2,472
Maitland, mount.....	49 09	125 29	4,337
Colnett, mount.....	49 11	125 51	2,616
Lone cone.....	49 13	125 55	2,332
Catface mountains, north summit.....	49 16	125 59	3,370
Bedingfield range, summit.....	49 20	125 51	3,800
Wood mount (Clayoquot sound).....	49 22	125 49	4,162
Steeple mountain.....	49 20	125 45	4,402
Flores island, summit.....	49 18	126 10	3,000
Round saddle.....	49 26	126 24	2,310
Leading mountain.....	49 29	126 27	2,726
Lombard, mount.....	49 34	126 33	3,000
Bauke, mount.....	49 34	126 33	2,018
Bury, mount.....	49 35	126 30	3,096
Albemarle, mount.....	49 35	126 28	3,756
Adair, mount.....	49 35	126 31	2,889
Mills mountains.....	49 35	126 30	2,396
Powell, mount.....	49 36	126 29	3,083
Serjeant, mount.....	49 37	126 28	2,222
Conuma peak.....	48 50	126 18	4,889
Bate, mount.....	49 52	126 30	5,091
Herbert, mount.....	49 53	126 30	4,200
Needle peak.....	49 51	126 33	4,475
Walker, mount.....	49 45	126 34	3,646
Nootka cone.....	49 37	126 40	1,619
Geneviève, mount.....	49 42	126 53	1,800
Sophia range.....	49 48	126 52	2,000-2,500
Rosa, mount.....	49 48	126 55	2,553
Leading hill.....	49 51	127 01	1,104
Eliza dome.....	49 53	127 08	2,819
Eliza ears, north.....	50 00	127 01	4,107
Eliza ears, south.....	49 59	127 02	3,885
Anvil peak.....	49 58	127 09	3,279
Ship peak.....	49 59	127 09	3,197
Stone nipples, north.....	49 59	127 11	3,360
Stone nipples, south.....	49 58	127 11	3,464
Family humps, east.....	50 03	127 08	2,980
Family humps, west.....	50 03	127 09	2,892
Slate mountain.....	50 05	127 06	2,607
Union island.....	50 02	127 17	1,484
Sharp Snow summit.....	50 06	127 02	3,787
False ears.....	50 08	127 09	3,814
Garibaldi peak, east.....	50 12	127 13	4,458
Garibaldi peak, west.....	50 12	127 15	3,695
Snow Saddle mountain.....	50 16	127 15	4,151
St. Pauls dome.....	50 03	127 25	1,885

BRITISH COLUMBIA—SUNDRY ALTITUDES			
	Lat.	Long.	Elevation above mean sea level
Vancouver Island			
Red mountain.....	50 06	127 29	2,348
Sharp peak.....	50 13	127 44	2,975
Gap mountain.....	50 26	127 56	2,204
Saddle mountain.....	50 30	127 55	1,396
Nose peak.....	50 29	128 00	1,730
Burnt hill.....	50 28	128 01	1,095
Entrance mountain.....	50 28	128 04	1,275
Triangle island, Scott islands.....	50 52	129 05	680
Cox island, " ".....	50 47	128 37	1,047
Lanz island, " ".....	50 49	128 42	1,177
Shushartie saddle.....	50 49	127 52	1,900
Lemon, mount (Nigei island).....	50 53	127 48	1,200
Table mountain.....	50 30	127 04	3,080
Nimpkish lake.....	50 25	127 00	100
Karmutzen, mount.....	50 21	127 01	5,500
Castle, mount.....	50 27	127 09	4,640
Holdsworth, mount.....	50 31	126 56	3,040
Hankin range.....	50 25	126 55	4,000
Franklin range.....	50 28	126 40	4,680
Newcastle range.....	50 25	126 12	2,000
Palmerston, mount.....	50 25	126 20	5,000
Prince of Wales range.....	50 21	125 52	4,645
Menzies, mount, north summit.....	50 14	125 31	3,830
Alexandra peak.....	49 44	125 30	6,394
Albert Edward, mount.....	49 41	125 27	6,968
Washington, mount.....	49 45	125 19	5,415
Geoffrey, mount.....	49 31	124 43	1,090
Beaufort range.....	49 28	125 00	5,420
Denman island.....	49 31	124 48	535
Mark, mount.....	49 22	124 45	3,080
Horne lake.....	49 20	124 43	357
Wesley, mount.....	49 19	124 39	2,530
Evans, mount.....	49 18	124 41	2,500
View mountain.....	49 18	124 47	1,600
Benson, mount.....	49 09	124 04	3,366
Hayes, mount.....	49 01	123 54	1,550
Nicholls, mount.....	48 57	123 51	1,900
Stanton peak.....	48 58	123 49	1,609
Prevost, mount.....	48 51	123 46	2,687
Quadra hill (Galiano island).....	48 56	123 30	740
Mayne island.....	48 51	123 17	804
Bruce, mount.....	48 48	123 30	2,329
Lazar, mount.....	48 36	123 47	2,190
Good, mount.....	48 53	124 10	4,600
Franklin, mount.....	48 55	124 11	5,000
Drew, mount.....	48 57	124 09	4,500
Whimper, mount.....	48 58	124 14	5,120
Landalt, mount.....	48 59	124 17	4,250
Hooper, mount.....	49 01	124 28	5,100
Buttle, mount.....	49 01	124 34	5,250
Euptor, mount.....	49 35	125 38	6,000
Crown mountain.....	49 56	125 48	6,082
Victoria peaks.....	50 04	126 10	7,484
Twin Peaks, north.....	50 30	127 17	4,520
Twin Peaks, south.....	50 29	127 17	4,630

BRITISH COLUMBIA—SUNDRY ALTITUDES	Lat.	Long.	Elevation above mean sea level
West Coast			
Stony mountain.....	48 46	123 10	1,409
David, mount.....	48 48	123 11	800
Parke, mount.....	48 50	123 18	804
Solitary hill.....	49 09	122 00	1,166
Sumas mountain.....	49 03	122 02	3,220
Grant hill.....	49 12	122 30	1,240
Blanchard or Golden Ears, mount.....	49 22	122 31	5,560
Crown, mount.....	49 25	123 09	4,708
Black mountain.....	49 23	123 14	4,280
Strahan, mount.....	49 25	123 12	5,287
Harvey, mount.....	49 28	123 11	5,865
Brunswick, mount.....	49 30	123 12	6,265
Murchison, mount.....	49 44	123 14	6,126
Roderick, mount.....	49 43	123 17	4,356
Ellesmere, mount.....	49 38	123 48	5,800
Wrottesley, mount.....	49 37	123 21	5,836
Elphinstone, mount.....	49 28	123 33	4,508
Gambier island.....	49 31	123 26	3,176
Gardner, mount.....	49 23	123 24	2,479
Leading peak (Anvil island).....	49 33	123 18	2,746
Tremeton, mount.....	49 28	124 18	1,050
Nelson island, summit.....	49 43	124 09	1,500
Hallowell, mount.....	49 42	123 57	3,980
Arthur, mount (Pender harbour).....	49 38	124 02	1,500
Drew, mount.....	49 47	123 48	6,150
Marlborough heights.....	49 57	123 55	6,114
Churchill, mount.....	49 59	123 52	6,570
Spencer, mount (Jervis inlet).....	50 00	123 51	6,214
Helena, mount.....	50 13	123 52	5,451
Albert, mount.....	50 15	123 52	8,260
Victoria, mount (Jervis inlet).....	50 17	124 00	7,452
Alfred, mount.....	50 14	124 06	8,450
Alice, mount.....	50 12	124 04	6,285
Wellington, mount.....	50 09	123 58	6,155
Arthur, mount (Jervis inlet).....	50 09	123 56	5,585
Frederick William, mount.....	50 06	123 52	6,137
Cambridge, mount.....	50 03	124 02	5,036
Diadem, mount.....	50 00	124 06	6,050
Calder, mount.....	49 54	124 00	4,960
Troubridge, mount.....	49 49	124 11	4,360
Shepherd, mount.....	49 32	124 12	2,900
Burster hills.....	50 00	124 41	3,500
Gwendoline hills.....	50 02	124 48	847
Weaver, mount.....	50 05	124 42	2,373
Spooner, mount.....	50 07	124 42	1,650
Gifford peninsula.....	50 05	124 45	1,000
Pardoe, mount.....	50 10	124 36	5,000
Crawshay, mount.....	50 11	124 34	5,500
Dudley cone.....	50 12	124 36	4,130
Green mountain.....	50 07	125 00	860
Cortes island.....	50 05	124 57	1,062
Llanover, mount.....	50 11	124 50	2,200
Nipple summit.....	50 13	124 58	2,876
Monk, mount.....	50 16	124 52	2,540
Gloucester, mount.....	50 17	124 53	3,228

BRITISH COLUMBIA—SUNDRY ALTITUDES

Lat.

Long.

Elevation
above mean
sea level

West Coast

Bunsen, mount.....	50 17	124 47	4,100
Addenbroke, mount.....	50 14	124 42	5,140
Evening mountain.....	50 13	125 05	1,480
William, mount.....	50 13	125 09	1,137
Raza island.....	50 18	125 02	3,020
Stuart island.....	50 23	125 10	800
Aiken, mount.....	50 17	124 35	5,940
Denman, mount.....	50 17	124 32	6,590
Whieldon, mount.....	50 19	124 38	5,520
Grazebrooke, mount.....	50 21	124 39	5,420
Barner, mount.....	50 27	124 37	6,090
Face mountain.....	50 26	124 44	5,095
Gasteneau mountains.....	50 24	125 46	5,740
Hayes, mount (Bute inlet).....	50 21	124 56	5,380
Toba, mount.....	50 20	125 05	2,900
Downie range, north.....	50 25	125 03	4,626
Downie range, south.....	50 23	125 02	4,400
Powell, mount.....	50 28	124 58	6,066
Needle peaks, north.....	50 44	124 49	7,625
Needle peaks, south.....	50 43	124 48	8,145
Superb mountain.....	50 48	124 50	8,000
Rodney, mount.....	50 51	124 49	7,883
Evans, mount (Bute inlet).....	50 58	124 53	6,900
House mountain.....	50 55	124 54	4,118
Smith, mount.....	50 50	125 03	7,544
Granite peak.....	50 44	124 59	6,653
Cosmos heights.....	50 35	125 04	5,746
Stokes, mount.....	50 27	125 11	3,652
Estero peak.....	50 28	125 13	6,055
San Josef, mount.....	50 30	125 16	4,200
Gardiner, mount.....	50 35	125 15	6,300
Jones, mount.....	50 34	125 19	6,235
Treble, mount.....	50 30	125 21	4,000
Tucker, mount.....	50 25	125 19	3,380
Brougham, mount.....	50 24	125 27	2,203
Eldon, mount.....	50 24	125 31	2,011
Solitary, mount.....	50 26	125 40	1,718
Town hill.....	50 25	125 45	1,200
Vansittart, mount.....	50 24	125 47	1,464
Bradshaw, mount.....	50 28	125 35	2,300
Harold, mount.....	50 32	125 39	1,200
Bagshaw, mount.....	50 33	125 29	2,800
Entwistle, mount.....	50 35	125 30	4,000
Osmington, mount.....	50 36	125 26	4,500
McDonald, mount.....	50 37	125 32	3,235
Sparshot, mount.....	50 39	125 30	2,740
Read, mount (Loughborough inlet).....	50 40	125 28	4,420
Pratt, mount.....	50 40	125 25	5,330
Owen, mount.....	50 41	125 26	4,960
Blake, mount.....	50 42	125 32	3,000
St. John, mount.....	50 43	125 33	2,680
Henry, mount.....	50 44	125 29	3,000
Magin, mount.....	50 45	125 33	1,800
Bazalgette range.....	50 40	125 37	5,300
Paget cone.....	50 27	125 40	2,600

BRITISH COLUMBIA -SUNDRY ALTITUDES	Lat.	Long.	Elevation above mean sea level
West Coast			
Yorke, mount.....	50 26	125 49	2,165
Royston, mount.....	50 27	125 51	2,625
Craven hill.....	50 27	125 56	1,000
Franklyn range.....	50 28	125 41	3,200
Egremont mount.....	50 29	125 42	2,800
Clarence, mount (Johnstone strait).....	50 27	125 43	3,015
Frederick, mount (Johnstone strait).....	50 27	125 44	2,655
George, mount.....	50 28	125 46	3,700
Harewood, mount.....	50 28	125 45	2,600
Lascelles, mount.....	50 28	125 47	3,400
Boyle, mount.....	50 31	125 43	2,000
Hastings hill.....	50 31	125 45	1,221
Drummond, mount.....	50 33	125 44	3,273
Berkeley, mount.....	50 34	125 45	3,987
Spencer, mount (Johnstone strait).....	50 32	125 50	2,345
Shute, mount.....	50 32	125 51	2,200
Scaife, mount.....	50 31	125 53	2,253
Forbes, mount.....	50 34	125 53	2,000
Geneste cone.....	50 30	125 53	1,400
Tripp hill.....	50 29	125 56	1,900
Sparks cone.....	50 29	125 58	1,155
Baresides, mount.....	50 32	125 58	3,010
Scriven, mount.....	50 38	125 53	4,290
Sawyer, mount.....	50 39	125 52	4,140
Camp peak.....	50 39	125 57	3,500
Edith, mount.....	50 38	125 47	2,600
Flora peak.....	50 40	125 46	1,950
Lillie, mount.....	50 43	125 38	5,280
Cap cone.....	50 43	125 37	5,560
Stamp, mount.....	50 43	125 59	4,150
Sail cone.....	50 42	125 56	2,290
Prideaux, mount.....	50 44	125 55	5,060
Beatrice peak.....	50 43	125 51	3,410
Catherine, mount.....	50 44	125 46	4,420
Young, mount.....	50 46	125 44	4,850
Francis, mount.....	50 48	125 56	4,880
Kitty cone.....	50 45	125 36	4,200
Wakefield, mount.....	50 47	125 33	5,480
Bald peak.....	50 49	125 35	3,330
Kennedy, mount.....	50 50	125 32	6,655
Three-finger peak.....	50 51	125 31	5,610
Glacier peak.....	50 51	125 33	4,120
Lang, mount.....	50 52	125 30	5,390
Dundas, mount.....	50 55	125 29	5,950
Cridge, mount.....	50 57	125 27	5,890
Watson, mount.....	50 51	125 43	4,750
Gilson, mount.....	50 53	125 43	5,140
Spire peaks, east.....	50 53	125 39	1,770
Spire peaks, west.....	50 53	125 40	3,160
Wood, mount.....	50 55	125 37	5,420
Hills, mount.....	50 57	125 39	5,650
Dyer, mount.....	51 00	125 38	6,100
Everard, mount.....	51 01	125 42	7,000
Swampfly peak.....	51 03	125 40	4,430
Rodell, mount.....	51 01	125 28	7,280

BRITISH COLUMBIA—SUNDRY ALTITUDES

Lat.

Long.

Elevation
above mean
sea level

West Coast

Costello peak.....	51 04	125 31	5,480
Lowe, mount.....	51 07	125 29	6,320
Village cone.....	51 07	125 33	3,690
Blair, mount.....	51 07	125 41	6,550
Hardy, mount.....	50 30	126 04	2,610
Collingwood, mount.....	50 33	126 02	3,255
Victory, mount.....	50 32	126 05	3,280
Snow mountain.....	50 33	126 09	3,000
Bare mountain.....	50 31	126 14	1,500
Faulkner, mount.....	50 31	126 16	1,600
Burnt mountain.....	50 34	126 11	2,850
Gosset, mount.....	50 36	126 08	2,300
Summerfield, mount.....	50 37	126 08	3,750
Hawkins, mount.....	50 37	126 08	4,740
Anthony, mount.....	50 33	126 15	1,100
Thomas, mount.....	50 34	126 19	1,050
Read, mount.....	50 46	126 16	4,820
Hulton, mount.....	50 45	126 13	3,980
James, mount.....	50 43	126 25	2,676
Dunsterville, mount.....	50 48	126 22	2,700
Carrington hills.....	50 46	126 25	1,000
Antony, mount.....	50 42	126 07	5,060
Frederic, mount.....	50 43	126 04	5,000
Foster, mount.....	50 45	126 01	3,890
Hooper, mount.....	50 48	126 08	5,360
Kingcome mountains.....	50 55	126 09	5,600
Smyth cone.....	50 53	126 08	3,890
Everingham, mount.....	50 57	126 16	5,200
Craig hills.....	50 44	126 21	3,000
Sophia, mount.....	50 53	126 21	4,200
Mathison, mount.....	50 51	126 24	4,100
Bald mountain (Kingcome inlet).....	50 51	126 28	2,925
Hawes, mount.....	50 52	126 32	1,400
Prescott, mount.....	50 50	126 29	3,000
Plumridge, mount.....	50 53	126 31	3,355
Quoin or Stoney mountain.....	50 49	126 38	1,500
Double hill.....	50 48	126 39	1,400
Lone hill.....	50 47	126 43	1,000
Ick, mount.....	50 49	126 47	1,365
Browne, mount.....	50 51	126 47	1,745
Stopford, mount.....	50 51	126 51	940
Constable, mount.....	50 57	126 22	5,325
Plowden, mount.....	50 58	126 27	4,300
Walter, mount.....	51 00	126 29	3,300
Benedict, mount.....	51 02	126 28	3,500
Beckford, mount.....	50 58	126 33	3,500
Pasmore, mount.....	50 57	126 33	2,800
Lardner, mount.....	50 56	126 32	3,465
Burrell, mount.....	50 55	126 40	1,500
Burnaby range.....	50 55	126 42	2,500
Stephens, mount.....	50 58	126 41	5,665
Conolly, mount.....	50 54	126 43	3,965
Matthew range.....	50 53	126 43	2,365
Cliff mountain.....	50 54	126 47	2,375
Calvert, mount.....	50 54	126 50	1,135

BRITISH COLUMBIA—SUNDRY ALTITUDES	Lat.	Long.	Elevation above mean sea level
West Coast			
Colville range.....	50 56	126 47	2,500
Parthenope, mount.....	50 58	126 51	1,345
Verney, mount.....	50 59	126 52	2,225
Eliza, mount (Drury inlet).....	50 57	126 51	1,100
Emily, mount.....	50 56	126 53	1,225
Nightingale, mount.....	50 57	126 57	1,675
Florence, mount.....	50 57	126 55	1,515
Fermanagh, mount.....	50 56	126 57	1,135
Morton, mount.....	50 55	126 56	1,545
Jolliffe, mount.....	50 55	126 58	1,460
Simmonds, mount.....	50 52	126 57	1,125
Otway, mount.....	50 52	126 56	1,215
Hulme, mount.....	50 52	127 01	1,065
Wynyard, mount.....	50 52	127 02	1,200
Kerr, mount.....	50 55	127 04	1,145
Oke, mount.....	50 56	127 01	1,000
Thornton Bate, mount.....	50 58	127 00	2,200
Silverlock hills.....	50 58	127 04	1,900
Bullock, mount.....	50 57	127 07	2,180
Adams, mount.....	50 57	127 10	1,610
Ward, mount.....	50 59	127 09	2,000
Snowdrift mountain.....	51 07	126 37	4,000
Finger mountain.....	51 08	126 37	5,000
Flat mountain.....	51 13	126 45	6,000
Village mountain.....	51 09	126 47	3,500
Noel hill.....	51 07	127 38	1,000
Coast nipple.....	51 11	127 40	1,350
Robinson, mount.....	51 11	127 36	2,100
Lewis range.....	51 14	127 19	3,800
Coast peak.....	51 21	127 37	1,250
Cooper, mount.....	51 03	126 53	3,000
Annesley, mount.....	51 04	127 13	2,760
Denny island.....	52 09	127 59	2,730
Buxton, mount.....	51 36	128 00	3,430
Moore, mount.....	52 20	126 52	4,960
Remarkable cone.....	52 09	127 52	2,300
Hand, mount.....	52 11	128 14	1,164
Chatfield island.....	52 15	128 07	920
Lake mountain.....	52 21	128 19	2,770
Stripe mountain.....	52 26	128 25	2,020
Cone mountain.....	52 40	128 38	2,400
Needle peak, south.....	52 43	128 40	2,600
Needle peak, north.....	52 48	128 42	2,800
Alice, mount.....	52 46	128 58	1,150
Palmer mountain.....	52 41	128 54	1,000
Estevan island.....	53 05	129 38	1,700
Campania island.....	53 05	129 23	2,000
Wimbledon mountains.....	53 20	129 00	2,000-3,000
Gil, mount.....	53 16	129 13	3,000
Promise island.....	53 23	129 16	1,710
Pitt, mount.....	53 24	129 20	3,000
Pocock, mount.....	53 26	129 17	2,300
Noble mountain.....	53 39	130 11	2,874
Farrant island.....	53 20	129 26	1,700
Elwin mountain, north.....	53 57	130 03	2,334

BRITISH COLUMBIA—SUNDRY ALTITUDES

Lat.

Long.

Elevation
above mean
sea level

West Coast

500	Elwin mountain, south...	53 56	130 02	2,557
345	Bareside mountain...	53 55	130 18	1,645
225	Spicer island...	53 45	130 22	827
100	Nubble mountain...	53 49	130 35	1,400
225	McCauley island...	53 40	130 15	1,160
675	Anchor, mount...	53 52	130 15	1,981
515	Shields, mount...	53 50	130 17	2,020
135	McGrath, mount (Chatham sound)...	54 09	130 15	2,220
545	Oldfield, mount...	54 17	130 15	2,300
460	Mission, mount...	54 22	130 22	1,310
125	Kennedy island...	54 02	130 11	2,765
215	Deer mound...	54 26	130 23	2,230
065	Prescott island...	54 05	130 37	820
200	Basil lump...	54 30	130 21	2,960
145	Stephens island...	54 07	130 37	340
000	Leading peak...	54 31	130 23	2,240
200	Ben mountain...	54 32	130 22	2,460
900	Griffin, mount...	54 32	130 29	1,410
180	McNeil, mount...	54 35	130 14	4,300
610	Bonwick, mount...	54 32	130 51	1,600
000	Thumb peak...	54 33	130 54	2,500
000	Compton island...	54 39	130 25	950
000	Tomlinson, mount...	55 02	129 57	3,385
000	Woods, mount...	55 01	129 51	3,807
500	Francis, mount...	55 08	130 49	5,041
000	Jauncey, mount...	55 05	130 05	3,654
350	Washington range...	55 08	130 01	4,041
100	Dent, mount...	55 12	129 58	5,057
800	Huntingdon, mount...	55 16	129 40	5,048
250	Newport mountains, north...	55 24	129 55	5,538
000	Newport mountains, south...	55 22	129 56	5,710
760	Tournay, mount...	55 27	129 57	5,532
730	Clashmore, mount...	55 29	129 54	5,562
430	Marshal, mount...	55 31	129 59	4,500
960	George mountains...	55 33	129 50	3,225
300	Campbell mountains...	55 31	129 43	4,406
164	Chaloner range...	55 30	129 34	4,681
920	Ashby mountains, north...	55 39	129 54	5,173
270	Ashby mountains, south...	55 36	129 54	5,485
020	Brown, mount...	55 43	129 57	5,800
400	Quanton mountains...	55 45	129 50	5,163
600	Colling range...	55 50	130 00	3,000-4,000
800	Treble mountain (Portland canal)...	55 53	129 50	4,000-5,000
150	Disraeli mountains...	56 05	129 55	7,000
000	Gladstone, mount...	56 00	129 51	4,800
700	Johnson, mount...	56 03	129 58	6,365
000	Reverdy mountains...	56 00	130 00	5,117
0-3,000	Tyee, mount...	56 12	131 26	4,660
000	Plain mountain...	55 18	131 50	2,055
710	Kapho, mount...	56 16	131 36	4,589
000	Smooth mountain...	55 14	131 48	1,899
300	Black Crag...	56 33	131 42	5,900
874	Sullivan peak...	55 22	131 48	2,142
700	Whipple, mount...	56 37	131 36	6,033
334	Snowy mountain...	56 25	131 24	5,577

BRITISH COLUMBIA--SUNDRY ALTITUDES	Lat.	Long.	Elevation above mean sea level
West Coast			
Kahtate mountain..	56 40	131 42	4,050
Iskut mountain....	56 41	131 41	4,799
Turner, mount.....	56 47	131 32	6,600
McGrath, mount (Stikine river)	56 46	131 31	6,179
Elbow mountain.....	56 56	131 50	4,233
Glacier mountain..	56 47	131 50	4,760
Laura, mount.....	56 50	131 43	7,527
Sugarloaf mountain ..	56 50	131 41	5,259
Big mountain.....	56 54	131 35	8,750
Harold, mount (Stikine river)	57 00	131 41	3,428
Snowcap mountain.....	56 54	131 52	4,950
Boundary mountain..	57 04	131 51	4,805
Robertson, mount ..	56 54	131 37	7,950
Eagle crag.....	56 55	131 42	5,705
Thunder mountain ..	56 48	132 38	3,080
Simpson peak.....	56 51	132 31	5,271
Saw peak.....	56 56	132 35	5,124
Dupont peak.....	56 54	132 31	5,294
Patterson peak, north ..	56 58	132 41	4,812
Patterson peak, south ..	56 58	132 41	4,746
House peak.....	56 51	132 34	6,001
Cosmos range.....	57 00	132 43	4,723
Kates Needle.....	57 03	132 02	9,560
Hump knoll.....	57 58	132 50	3,116
Devils Thumb.....	57 05	132 21	9,105
Twin peaks.....	56 57	132 32	6,557
Foots peak.....	57 04	132 45	5,176
Admiral range.....	57 03	132 44	5,050
Bainbridge peak.....	57 06	132 59	3,467
Henry peak.....	57 08	132 56	3,386
Gray peak.....	57 10	132 51	4,694
Preble peak.....	57 06	132 42	5,028
Agassiz peak.....	57 12	132 49	5,533
Dana peak.....	57 08	132 54	4,260
Maury peak.....	57 15	132 53	5,630
Franklyn peaks, north ..	57 08	133 03	4,314
Franklyn peaks, south ..	57 08	133 03	3,909
Grant peak.....	57 12	133 04	5,291
Ericsson peak.....	57 09	133 02	4,296
Lincoln peak.....	57 15	133 07	4,894
Garfield peak.....	57 16	133 10	3,929
Washington peak.....	57 16	133 20	3,557
Rodman peak.....	57 06	131 57	3,140
Dahlgren peak.....	57 14	133 22	3,569
Sumdum, mount.....	57 48	133 25	6,690
Tent mountain.....	57 55	133 08	7,100
Snow tower.....	58 10	133 24	6,550
Everett peak.....	58 01	133 54	3,748
Arthur peak.....	58 03	133 58	3,588
Villard, mount.....	59 16	135 17	5,000
Chilkoot pass.....	59 42	135 13	3,502
White pass.....	59 36	135 07	2,897
Carmack, mount.....	59 34	135 15	6,900
Cleveland, mount.....	59 49	135 45	6,000
Emmons, mount.....	59 33	135 23	5,750

BRITISH COLUMBIA—SUNDRY ALTITUDES

Lat. Long. Elevation
above mean
sea level

West Coast

Newell, mount.....	59 28	135 15	5,545	
Ripinski, mount.....	59 21	135 30	4,000	
Emmerich, mount.....	59 13	135 41	6,800	
Snow dome.....	58 59	135 52	3,300	
Glave, mount.....	59 36	136 19	6,150	
Snow dome.....	58 58	135 54	5,990	
Black mountain.....	59 07	136 06	5,130	
Chilkat peak.....	59 30	136 08	6,380	
Wright, mount.....	58 49	136 02	4,945	
Case, mount.....	58 48	135 49	5,510	
Saddle mountain.....	58 58	135 33	5,890	
Young, mount.....	58 52	135 34	5,720	
Pyramid peak.....	58 52	136 17	4,070	
La Perouse, mount.....	58 34	137 05	10,758	
D'Arcelet, mount.....	58 36	137 11	9,550	
Crillon, mount.....	58 40	137 10	12,750	
Lituya, mount.....	58 48	137 27	11,745	
Unana, mount.....	59 43	139 13	6,500	
Ruhamah, mount.....	59 50	139 03	8,445	
Pinta, mount.....	59 56	138 48	8,900	
Hoorta, mount.....	59 45	139 31	2,077	
Hendrickson, mount.....	59 49	139 28	4,550	
			Malaspina.....	14,589
			Tebenkof.....	14,000
			Vasilief.....	13,946
Fairweather, mount.....	58 55	137 32	14,708	
			Russian chart.....	13,864
			Tebenkof.....	15,500
			Coast Survey chart, 1895.....	15,287
			Int. Bdy. Com., Canada.....	15,292
			Coast Survey chart, 1900.....	

Cariboo District

Flat Top mountain.....	53 05	121 09	7,400
Palmer mountains, north.....	53 01	121 21	6,500
Palmer mountains, south.....	52 59	121 19	6,700
Howley mountain.....	53 00	121 25	6,300
Greenberry, mount.....	53 05	121 30	6,000
Murray, mount.....	53 06	121 31	6,000
Valley mountain.....	53 04	121 35	5,000
Two Sisters mountain.....	53 11	121 36	6,800
Island mountain.....	53 05	121 41	5,800
Burns mountain.....	53 01	121 41	5,800
Tom, mount.....	53 07	121 46	5,700
Wiley, mount.....	53 08	121 42	5,700
Dragon mountain.....	53 04	121 52	5,600
Tsinkut mountain.....	53 49	123 59	4,819
Anderson, mount.....	53 00	121 50	5,400
Sovereign mountain.....	52 58	121 56	5,400
Campbell mountain.....	52 58	121 51	5,200
Agnes, mount.....	52 58	121 36	6,200
Antler mountain.....	52 57	121 30	5,700
Burdett, mount.....	52 56	121 33	6,000

BRITISH COLUMBIA—SUNDRY ALTITUDES

Lat. Long. Elevation
above mean
sea level

Cariboo District

Meridian mountain.....	52 55	121 33	6,400
Black Stuart mountain.....	52 52	121 11	6,000
Kimball mountain.....	52 53	121 06	6,600
Round Top mountain.....	52 53	121 22	6,700
Yanks peak.....	52 48	121 29	6,140
Cariboo mountain.....	52 49	121 42	6,300
Newell, mount.....	52 47	121 57	4,200
Mitchell, mount.....	52 47	120 47	6,800
Watt, mount.....	52 39	120 49	8,500
Ogden peak.....	52 36	120 52	7,500
Three Sisters mountain.....	52 42	121 02	6,900
Barker mountain.....	52 45	121 15	6,500
Stevenson, mount.....	52 37	121 10	7,100
Brew, mount.....	52 35	121 17	6,600
Badger peak.....	52 38	121 20	6,500
Duck Creek mountain.....	52 43	121 39	5,000
Kangaroo mountain.....	52 42	121 45	4,800
Slide mountain.....	52 39	121 51	3,800
Forks mountain.....	52 36	121 45	3,600
Guy mountain.....	52 27	121 57	3,500
Quesnel lake.....	52 30	121 00	2,250
Cariboo lake.....	52 45	121 25	2,550

Central Interior

Choequoit lake.....	51 42	124 15	3,850
Tatla lake.....	52 00	124 25	3,918
Itcha mountains.....	52 40	125 00	6,000-7,000
Ilgachuz mountains.....	52 40	125 20	6,000-7,000
Tsitsutl mountain.....	52 40	125 50	6,000
Tetachuck lake.....	53 20	125 50	2,770
Fawnie mountains.....	53 10	125 00	6,000
Kuyakuz or McMillan mountains.....	53 10	124 40	5,000
Kuyakuz lake.....	53 08	124 40	3,518
Tatelkuz lake.....	53 15	124 45	3,049
Chestatta lake.....	53 42	125 15	2,800
Ootsabunkut lake.....	53 40	126 00	2,740
Tsawhuz mountain.....	53 40	122 58	3,240
Nadina mountain.....	54 01	126 53	5,255
Porte d'Enfer, summit.....	54 12	124 40	3,790
Stuart lake.....	54 30	125 00	2,200
Babine lake.....	54 45	126 00	2,222
Tacla lake.....	55 30	126 00	2,270
Nakatl, mount, or Pope's Cradle.....	54 30	124 36	4,800
Nacus mountain.....	55 14	125 50	7,000
Matzehtzel mountain.....	54 40	126 17	5,000
Netaltzul mountain.....	55 15	127 00	8,600
Blunt mountain.....	55 14	127 12	4,000
Rocher Déboulé range.....	55 11	127 40	6,680
Bear lake, headwaters of Bear river.....	56 00	126 45	2,604
Kitkargasse village.....	55 33	127 35	1,325
Babine range.....	55 30	127 30	7,000-8,000
Atna mountains.....	55 40	127 29	9,000
Horetzky mountain.....	55 38	126 53	5,272
Fire-pan mountains.....	55 30	126 30	7,000-8,000

BRITISH COLUMBIA—SUNDRY ALTITUDES

Lat.

Long.

Elevation
above mean
sea level

Central Interior

Kotsine pass.....	55 45	126 45	3,600
Atna pass.....	55 47	127 15	6,000
Suskwa pass.....	55 20	126 50	3,772
Hogem pass.....	55 38	125 54	3,438
Carp lake.....	54 50	123 25	2,747
Eucheniko lake.....	53 09	124 25	3,102
Upper Cluscus lake.....	53 05	124 31	3,140
Lower Cluscus lake.....	53 04	124 38	3,122
McLeod lake.....	54 55	123 00	2,250
Summit lake.....	54 15	122 40	2,300
Arctic-Pacific divide, Summit lake to Salmon river.....	54 14	122 45	2,500
Arctic-Pacific divide, McLeod and St. James trail.....	54 45	123 30	2,820
Giscome portage, summit.....	54 10	122 35	2,160
Bear mountain.....	53 59	122 08	3,500
Bear lake.....	53 55	122 00	2,523
Smoky River pass.....	54 08	120 12	5,300
Parsnip and Misinchinca rivers, confluence of.....	55 07	123 03	2,170
Pine pass.....	55 24	122 37	2,850
Canoe mountain.....	55 30	122 38	5,500
Hunter peak.....	55 10	122 10	5,550
Pine river, at Middle forks.....	55 37	121 42	1,930
Pine river, at Lower forks.....	55 44	121 18	1,837
Moberly lake.....	55 52	121 45	2,050
Selwyn, mount.....	56 00	123 45	6,220
Table mountain.....	55 38	123 30	3,500

Finlay and Omineca District

Finlay river—			
At Fort Grahame.....	56 36	124 43	2,215
At Deserter cañon.....	56 57	125 03	2,375
At mouth of Tochieca river.....	57 25	125 48	2,530
Finlay, mount.....	57 34	126 18	5,200
Daghaodeya, lake.....	56 30	125 05	2,700
Tchudi-tcho, lake.....	56 35	125 08	2,800
Akayih, mount.....	56 16	125 16	7,100
Meikle, mount.....	56 09	125 35	9,000
Tchukwazziti range.....	56 20	126 00	7,000-8,500
Tchutazi, lake.....	56 17	125 45	3,750
Tenakihi range.....	56 13	125 45	7,000-8,500
White, mount.....	56 12	126 07	9,800
Carruthers, mount.....	56 22	126 10	10,100
Matawadilata range.....	56 05	126 00	9,700
Omineca lake.....	56 11	126 40	4,100
Sitchi-ada, mount.....	56 06	126 33	7,500
Klote, lake.....	55 58	126 12	4,300
Connelly and Grahame trail, summit (Arctic-Pacific divide)	56 05	126 40	5,400
Same trail, divide between Omineca and Tchutazi rivers ..	56 10	126 10	5,100
Tchetla-tchudi lake.....	56 22	125 52	3,800
Hogem pass, summit.....	55 40	125 52	3,438
Old Hogen.....	55 45	125 26	2,570
Germansen.....	55 47	124 40	2,550

BRITISH COLUMBIA—SUNDRY ALTITUDES	Lat.	Long.	Elevation above mean sea level
Cassiar District			
Stikine river, at mouth of Telegraph creek.....	57 55	131 10	540
Kaketsa, mount.....	58 10	132 00	5,000
Egnell, mount.....	58 20	131 56	5,400
Heart mountain.....	56 38	132 05	5,100
Crater mountain.....	59 15	132 10	6,000
Disella lake.....	59 20	131 45	3,805
Hotailu mountain.....	58 20	130 15	5,700
McLeod, mount.....	58 35	130 10	6,300
Dease lake.....	58 40	130 05	2,660
Anvil mountain.....	59 00	129 55	7,500
Sylvester peak.....	59 10	129 15	7,000
Sheep mountain.....	59 08	129 06	8,100
Liard and Dease rivers, confluence of.....	59 56	128 34	2,100
Morice, mount.....	56 05	126 57	7,400
Poison mountain.....	56 07	128 00	3,000
Babiche hill.....	56 17	127 55	3,100
Damdochax lake.....	56 33	128 06	2,240
Groundhog mountain.....	56 45	1 0	6,000
Distingué, mount.....	56 55	1 5	5,700
Panorama mountain.....	56 50	1 24	4,100
Table mountain.....	57 00	128 15	5,700
Thule, mount.....	57 13	128 15	7,600
Schreiber cañon (Stikine river).....	57 57	128 23	3,900
Tsenaglode, mount.....	57 47	129 05	8,000
Ehalluei lake.....	57 40	129 46	3,000
Kinaskan lake.....	57 35	130 06	2,800
Eh-ah-dzette, mount.....	57 42	129 46	6,000
Klappan summit.....	57 46	129 41	4,000
Tatsho, mount.....	58 27	130 02	3,900
Edzia, mount.....	57 43	130 34	5,000
Miars, mount.....	58 02	130 27	5,500
Stinking lake.....	57 48	130 47	2,500
Gordon, mount.....	57 44	131 12	5,000
Atlin District			
O'Keefe mountain.....	59 08	133 14	5,500
Sloko mountain.....	59 09	133 45	5,500
Dawson peak, south.....	59 57	132 30	6,540
Snowdon mountain.....	59 43	132 30	6,895
Snowdon range.....	59 39	132 37	6,660
Jack peak.....	59 36	132 42	6,420
Guardian mountain.....	59 34	132 45	5,650
Sanford mountain.....	59 29	132 48	6,025
Smallpiece mountain.....	59 30	132 55	5,230
Chikoida mountain.....	59 14	133 00	6,050
Farnsworth mountain.....	59 30	133 00	5,730
McLean mountain.....	59 41	133 02	6,385
Dixie mountain.....	59 35	133 09	5,670
Edmund mountain.....	59 46	133 15	6,420
Idaho butte.....	59 36	133 17	6,180
Lawrie range.....	59 26	133 19	5,120
Spruce mountain.....	59 35	133 25	5,465
Ewing mountain.....	59 52	133 25	5,400

BRITISH COLUMBIA—SUNDRY ALTITUDES

Lat.

Long.

Elevation
above mean
sea level

Atlin District

Leonard mountain.....	59 43	133 26	6,730
Carrier peak.....	59 53	133 36	5,500
Section mountain.....	59 26	133 57	5,320
Cameron mountain.....	59 24	134 03	5,105
McCallum mountains, east.....	59 51	133 33	5,700
McCallum mountains, west.....	59 15	133 41	5,500
Mussen mountain.....	59 14	134 02	5,000
McMaster mountain.....	59 20	133 10	5,720
Johnson range.....	59 26	133 26	5,500
Birch mountain.....	59 26	133 49	6,750
Atlin mountains.....	59 32	133 52	6,545
Bee peak.....	59 31	134 09	6,545
Lina range.....	59 30	133 33	5,685
Taku mountain, north.....	59 43	133 59	5,955
Munro mountain.....	59 37	133 35	4,740
Barham peak.....	59 46	133 20	6,820
McIntosh mountain.....	59 50	133 25	5,000
Brown dome.....	59 49	132 58	6,575
Boofus mountain.....	59 56	133 02	5,200
Halero peak.....	59 56	133 44	5,860
Black mountain.....	59 57	133 43	5,700
Minto, mount.....	59 56	133 53	6,860
Pine City.....	59 36	133 34	2,825
Surprise lake.....	59 40	133 15	3,030
Gladys lake.....	59 54	133 00	2,915
Tagish lake.....	59 45	134 15	2,161
Atlin lake.....	59 30	133 45	2,200
Edgar lake.....	59 25	134 10	2,800
Nelson lake.....	59 20	134 12	2,900
Pike lake.....	59 15	133 25	2,500
Florence mountains.....	59 23	134 15	6,610
Gleaner, mount.....	59 28	134 09	6,650
Hale, mount.....	59 32	134 21	5,490
Lawsan, mount.....	59 34	134 26	5,150
Fantail lake.....	59 37	134 30	2,310
Clive, mount.....	59 45	134 26	6,800
Sunday peak.....	59 36	134 07	6,260
Lanning, mount.....	59 51	134 25	6,240
Stovel peak.....	59 53	134 05	5,960
Teslin lake.....	60 00	132 05	2,600

Queen Charlotte Islands

'The highest and most rugged part of the mountain axis of the islands is found in latitude 52° 30', where many peaks rise to altitudes probably surpassing'.....			
52 30	132 00	5,000	
'High mountains are again found opposite Burnaby island, but towards cape St. James the land gradually falls. About Houston Stewart channel none of the summits probably surpass'.....			
52 08	131 12	2,000	
'About the heads of Cumshewa and Skidegate inlets and on Louise island the land is very rugged with many summits exceeding'.....			
53 00	132 00	3,000—4,000	

BRITISH COLUMBIA—SUNDRY ALTITUDES	Lat.	Long.	Elevation above mean sea level
Queen Charlotte Islands			
'The mountains about the head of Masset inlet seldom surpass'.....	53 35	132 30	1,000
Huxley island.....	52 27	131 23	1,500
Lyell island, 'hills in the centre of the island probably exceed'.....	52 40	131 45	1,000
Red Top mountain, about.....	52 47	131 58	3,000
Kunga island.....	52 46	131 40	1,500
Carpenter bay—'Thickly wooded mountains rise everywhere from the water's edge to heights frequently exceeding 1,000 feet, but rarely, if ever, more than'.....	52 12	131 10	2,000
Skincuttle inlet—'The mountains at the head of Tangle cove are steep and probably reach'.....	52 18	131 25	3,000
Bigsby inlet—'Is a gloomy chasm surrounded by mountains which sometimes attain, in the first instance, a height of 3,000 feet. Further back, especially to the southward and westward, massive summits rise to'.....	52 38	131 55	5,000
Klun-kwoi bay, 'the highest peaks probably exceed'.....	52 42	132 00	5,000
Table mountain.....	53 12	131 55	1,720
San Christoval mountains.....	52 30	131 52	4,000
Burnaby island.....	52 22	131 27	1,500

KETTLE RIVER

Elevation
above mean
sea level

Canadian Pacific Ry. bridge, near Cascade, high water, 1,472; low water.....	1,460
Canadian Pacific Ry. bridge, near Grand Forks, low water.....	1,672
Great Northern Ry. bridge, near Grand Forks, high water.....	1,729
At Rock creek, high water.....	1,979
Four miles above Rock creek, water (Sept. 20, 1910), 2,001; high water.....	2,010
Confluence with West fork, high water.....	2,058
West fork—	
Mouth of Conkle creek, high water.....	2,105
3½ miles above Conkle creek, high water.....	2,190
6½ miles above Conkle creek, high water.....	2,297
9 miles above Conkle creek, high water.....	2,373
11 miles above Conkle creek, high water.....	2,421
15½ miles above Conkle creek, high water.....	2,496
5 miles below Carmi, high water.....	2,544
1 mile below Carmi, high water.....	2,600
Carmi, high water.....	2,703
North fork—	
Smelter lake, water.....	1,749
Near Niagara, water.....	1,782

COLUMBIA RIVER

Upper Columbia lake, water (Oct. 7, 1913).....	2,652
Winde mere lake, high water, 2,611; water.....	2,607
1-6 miles N. of Atholmer station, high water.....	2,611
5-8 miles S. of Edgewater station, water (Jan., 1906).....	2,611
2-2 miles N. of Brisco station, high water.....	2,611
8-7 miles N. of Harrogate station, high water (1911).....	2,611
Mouth of Kicking Horse river, water.....	2,568
1-6 miles N.W. of Golden station, water.....	2,561
Canadian Pacific Ry. bridge, near Donald, high water, 2,524; low water.....	2,513
Canadian Pacific Ry. bridge, near Revelstoke, extreme high water, 1,441; low water.....	1,423
1-9 miles S. of Wigwam station, high water.....	1,408
Upper Arrow lake, high water (1894), 1,416; low water.....	1,383
Lower Arrow lake, high water, 1,415; low water.....	1,382
Confluence with Kootenay river, high water (1909), 1,412; low water.....	1,380

KOOTENAY RIVER

Confluence with Columbia river, high water (1909), 1,412; low water.....	1,380
Confluence with Slocan river, high water (1909).....	1,493
0-4 mile E. of Taghum station, main channel, high water (1909), 1,741; flood (1909), 1,757; low water (Feb., 1905).....	1,724
Kootenay lake, extreme high water (1894), 1,777; ordinary high water, 1,764; low water (1898-99).....	1,749
Confluence of Elk river.....	2,394
1-75 miles E. of mouth of Sand creek, water.....	2,414
Mouth of Plumbob creek, water.....	2,421
Canadian Pacific Ry. bridge, at Wardner, high water, 2,455; low water (Sept. 6, 1897).....	2,438
3-1 miles N. of Wasa station, water (Oct., 1911).....	2,510
8-1 miles N. of Skookumchuck station, water (June, 1913).....	2,589
1-2 miles N. of mouth of Findlay creek, water.....	2,653
2-5 miles S. of Grohman, high water, 2,667; water.....	2,658
Mouth of White river.....	2,930
Three mile. above mouth of Palliser river.....	3,150
Crossing of trail from Sinclair pass.....	3,440

KOOTENAY RIVER	Elevation above mean sea level
Trail crossing, about 1½ miles above mouth of Vermilion river	3,820
Divide between Kootenay and Beaverfoot rivers	4,158
Elk river:—	
Confluence with Kootenay river, high water	2,394
1·6 miles east of Elko, high water, 3,022; low water	3,014
0·3 mile west of Morrissey, high water, 3,118; low water	3,110
Kananaskis pass, summit	6,500
SLOCAN RIVER	
Confluence with Kootenay river, high water (1909)	1,493
2 miles N. of Koch station, extreme flood	1,570
Opposite Passmore station, extreme flood	1,616
Mouth of Pedro creek, extreme flood	1,693
Slocan lake, high water (1894), 1,774; low water (Feb., 1897)	1,762
Summit lake, high water, 2,492; low water	2,490
FRASER RIVER	
At entrance, springs rise 10 feet, at New Westminster the rise and fall due to tidal causes at springs is 6 feet, and, at Langley, scarcely perceptible.	
New Westminster bridge, ordinary high tide	6
Canadian Pacific Ry., Mission branch, bridge, high water, 26; low water	1
Confluence with Hatzic river, high water, 28; low water	3
Nicomen slough, high water (1894)	35
Maria slough, 1·9 miles E. of Agassiz station, high water, 68; ordinary water	51
Opposite Ruby Creek station, high water	98
Kettle Valley Ry. bridge, high water (1894), 140; water (June 16, 1913), 135; water (July 16, 1913), 126; water (Feb. 12, 1913)	115
0·5 mile north of Choate station, high water, 140; ordinary water	134
Mouth of Yale creek, ordinary high water, 177; low water	161
"Sailor bar," 1·2 miles north of Saddle Rock station, high water (1882)	254
2·0 miles south of Cathmar station, high water (1894), 328; low water	301
1·8 miles north of China Bar station, high water	362
Mouth of Salmon river, high water	405
Canadian Pacific Ry. bridge, near Kanaka, high water (1894), 474; low water (1912)	395
Canadian Northern Ry. bridge near Lytton, high water (1894), 506; ordinary high water, 473; low water	436
Pacific Great Eastern Ry. bridge, high water (1913), 641; extreme high water (1894), 650; low water (1913)	619
9 miles south of mouth of Soda creek, water	1,381
Confluence with Quesnel river, high water, 1,573; low water	1,563
Confluence with Cottonwood river, water	1,786
Grand Trunk Pacific Ry. bridge at Prince George, high water, 1,861; water	1,848
2·5 miles west of Willow River station, high water, 1,896; water	1,887
G.T.P. Ry. bridge, 1·0 mile S.E. of Hansard station, water	1,983
G.T.P. Ry. bridge, 1·7 miles S.E. of Bend station, high water, 2,075; water	2,064
1·9 miles S.E. of Urling station, high water, 2,106; water	2,097
G.T.P. Ry. bridge over back channel, 2·1 miles S.E. of Crescent Island station, high water, 2,127; water	2,120
0·6 mile W. of Knole station, high water	2,220
G.T.P. Ry. bridge over Raushuswap river, high water, 2,334; water	2,330
G.T.P. Ry. bridge, 0·5 mile W. of Resplendent station, high water, 3,363; water	3,361
Moose lake, high water, 3,390; water (Aug. 28, 1907)	3,386
G.T.P. Ry. bridge over Moose river, high water, 3,419; water (Aug. 26, 1907)	3,416
G.T.P. Ry. bridge, 0·7 mile E. of Alpland, high water, 3,498; water (Aug. 21, 1907)	3,495
Canadian Northern Ry. bridge, near Yellowhead, bed	3,548
Yellowhead lake, high water, 3,623; water (Aug. 15, 1907)	3,622
Yellowhead pass, summit	3,728

NECHAKO RIVER

Elevation
above mean
sea level

Confluence with Fraser river at Prince George, water.....	1,848
Confluence with Chilako river, 0.9 mile W. of Chilako, water.....	1,948
1.3 miles W. of Stuart station, high water.....	2,075
1.4 miles W. of Hulatt station, high water.....	2,079
1.2 miles W. of Vanderhoof station, high water, 2,089; water.....	2,083
1.4 miles W. of Fort Fraser station, water (Apr. 4, 1908).....	2,185
Fraser lake, high water, 2,196; low water.....	2,192
'Great bend'.....	2,698
Summit between Nechako and Dean rivers.....	3,098
Endako river:—	
0.4 mile W. of Fraser Lake station, high water.....	2,199
4.1 miles W. of Savory station, water.....	2,244
3.3 miles W. of Priestly station, water.....	2,265
0.8 mile E. of Sheraton station, water.....	2,270
Decker lake, water (Oct. 30, 1908).....	2,288
Summit, between Endako and Bulkley rivers.....	2,363

THOMPSON RIVER

Confluence with Fraser river, ordinary high water, 473; high water (1894), 506; low water.....	436
1.7 miles W. of Thompson station, high water (1882), 593; low water (1882).....	553
2.5 miles E. of Drynoch station, high water (1911).....	677
0.4 mile W. of Skoonko station, high water (1911).....	690
2.7 miles S. of Martel station, high water (1911).....	747
Junction flat, high water, 795; low water (1882).....	759
0.7 mile S. of Spatsum station, high water, 865; low water.....	856
Canadian Northern Ry. bridge, near Minnabarriet, high water (1894), 867; low water.....	845
Black cañon, high water, 899; low water.....	879
6.3 miles W. of Ashcroft, high water (1912), 893; (1894), 908; low water (1911).....	876
Mouth of Bonaparte river, high water, 960; low water.....	959
0.7 mile E. of Ashcroft station, high water.....	972
Canadian Northern Ry. bridge, near Ashcroft, high water (1894), 987; low water.....	968
2.9 miles W. of Semlin station, high water, 998; low water.....	992
0.4 mile E. of McAbee station, water (Nov., 1911).....	1,006
Canadian Northern Ry. bridge, W. of Walthachin, high water (1894), 1,069; low water.....	1,047
0.4 mile below mouth of Deadman creek, high water (1894), 1,126; low water.....	1,091
Kamloops lake, high water, 1,135; low water.....	1,102

NORTH THOMPSON RIVER

Canadian Northern Ry. bridge, near Kamloops, ordinary high water, 1,125; high water (1894), 1,140; low water.....	1,116
3.3 miles N. of Louis Creek station, high water, 1,228; low water.....	1,223
3.3 miles S. of Blackpool station, high water, 1,280; low water.....	1,273
Mouth of Clearwater river, high water, 1,328; low water.....	1,321
Canadian Northern Ry., Birch Island bridge, high water (1894), 1,407; water (Oct., 1911).....	1,396
Canadian Northern Ry. bridge, near Mad River station, high water (1894), 1,621; water (Sept. 14, 1911).....	1,617
2.9 miles N. of Irving bluff, high water (1911), 1,843; water.....	1,839
0.9 mile N. of Wire Cache station, high water, 1,888; low water.....	1,880
0.2 mile S. of Cottonwood, ordinary high water, 1,898; freshet (1894), 1,908; low water.....	1,892
0.4 mile N. of Canoe Landing station, water (Jan., 1912).....	2,165
Near Trout Creek station, water (Jan., 1912).....	2,181
4.3 miles N. of Thunder Creek station, high water (1894), 2,278; water (April, 1912).....	2,261

NORTH THOMPSON RIVER		Elevation above mean sea level
2.6 miles N. of Pyramid Creek station, water (Aug., 1912)		2,322
Near mouth of Albreda river, high water, 2,409; low water		2,404
Albreda river, 0.6 mile N. of Clemina station, bed		2,744
Albreda lake, water (Nov., 1911)		2,852
Albreda summit, between Canoe and North Thompson rivers		2,870
SOUTH THOMPSON RIVER		
11.8 miles E. of Kamloops, high water (1894), 1,133; ordinary high water		1,128
Shuswap lake, extreme high water, 1,152; high water, 1,149; low water		1,133
Eagle river—		
0.8 mile W. of Bowie station		1,149
1.2 miles E. of Malakwa station		1,174
0.7 mile W. of Three Valley station		1,014
Three Valley lake		1,631
Summit lake, high water, 1,807; low water		1,804
SKEENA RIVER		
Mouth of Zymagoitz river, high water		149
Mouth of Kitsungallum river, high water		166
Foot of Kitsulas cañon, water (Oct. 11, 1913)		253
Head of Kitsulas cañon, water (Oct. 11, 1913)		289
Grand Trunk Pacific Ry. bridge, high water, 631; normal high water, 623; low water		602
Mouth of Bulkley river, water (Sept. 2, 1913)		725
Kitkargasse village		1,325
Mouth of Kuldo river		1,394
Mouth of Big Slide creek		1,452
Old Kuldo		1,490
Mouth of Cañon creek		1,754
Mouth of Bear river		2,256
Bear lake		2,604
McEvoy flat		3,060
Summit between Skeena and Stikine rivers		4,400
BULKLEY RIVER		
Confluence with Skeena river at Hazelton, water (Sept. 2, 1913)		725
Foot of Hagwilget cañon, water (July 15, 1913)		757
Head of Hagwilget cañon		781
Foot of Beament cañon		953
Head of Beament cañon		1,013
Mouth of Boulder creek		1,111
Foot of rapids at Telkwa		1,633
Mouth of Telkwa river		1,650
Mouth of Morice river, high water, 1,852; water		1,845
Summit between Bulkley and Endako rivers		2,363
TELKWA RIVER		
Confluence with Bulkley river		1,650
Mouth of Pine creek		2,000
Confluence with South fork		2,420
Mouth of Howson creek		3,170

YUKON—SUNDRY ALTITUDES

	Lat.	Long.	Elevation above mean sea level
Seattle, mount.....	60 05	139 12	10,000
Hubbard, mount {			
Int. Bdy. Com., Canada.....			16,400
Coast Survey.....	60 21	139 02	12,064
Nat. Geog. Soc.			11,500
Vancouver, mount {			
Int. Bdy. Com., Canada.....	60 21	139 42	15,617
Coast Survey.....			15,660
Cook, mount {			
Int. Bdy. Com., Canada.....	60 10	139 59	13,700
Coast Survey.....			13,758
Int. Bdy. Com., Canada.....			14,900
Augusta, mount {			
Coast Survey.....	60 18	140 28	13,918
Nat. Geog. Soc.			12,500
Newton, mount {			
Int. Bdy. Com., Canada.....	60 20	140 53	13,860
Coast Survey.....			13,771
Logan, mount.....	60 35	140 21	19,539
La Perouse (1781).....			12,072
Malaspina (1791).....			17,851
Russian chart (1847).....			17,854
Tebenkof (1847).....			16,938
Admiralty chart (1872).....			11,970
St. Elias, mount {			
Coast Survey (1868).....	60 18	140 56	19,500
Coast Surv. and Nat. Geog. Soc. (1870).....			16,350
Coast Surv. and Nat. Geog. Soc. (1891).....			18,100
Coast Survey (1892).....			18,010
Int. Bdy. Com., Canada (1895).....			17,978
Duc d'Abruzzi (1897).....			18,060
Coast Survey chart (1900).....			18,024
Tagish lake.....	60 10	134 15	2,148
Marsh, lake.....	60 30	134 15	2,147
Laberge, lake.....	61 15	135 05	2,100
Kusawa lake.....	60 30	135 45	2,565
Teslin lake.....	60 15	132 45	2,400
Jubilee mountain.....	60 05	134 04	6,380
White, mount.....	60 18	133 54	5,000
Hayes peak.....	60 18	133 12	5,050
Little Atlin lake.....	60 15	133 55	2,270
Atlin lake.....	59 45	133 45	2,200
Lansdowne, mount.....	60 21	134 28	6,140
Lorne, mount.....	60 27	134 38	6,400
Michie mountain.....	60 30	134 01	5,540
Golden Horn mountain.....	60 33	134 58	5,610
Haeckel hill.....	60 47	135 18	3,900
Ingram, mount.....	60 45	135 39	8,000
M'Clintock peak.....	60 48	133 47	6,000
Laurier, mount.....	60 05	134 48	5,265
Chilkat pass.....	60 09	136 04	4,950
Miners range.....	61 00	135 15	4,000-4,500
Sifton, mount.....	61 15	136 00	7,500
Hutchi village.....	61 24	136 30	2,600
'The Three Guardsmen'.....	61 24	137 15	7,300
Semenof hills.....	61 55	134 50	3,500-4,000
Dawson range.....	62 25	137 00	7,000
Lewes and Pelly rivers, confluence of.....	62 47	137 17	1,555
Yukon river at Dawson.....	64 02	139 25	1,200
Macmillan mountains.....	62 55	135 30	3,500-4,000
Glenlyon mountains.....	62 30	134 15	5,100-5,300
Pelly mountains.....	62 40	132 00	7,000
Pelly river, at west end of Liard River portage.....	60 47	131 02	2,965

YUKON SUNDRY ALTITUDES	Lat.	Long.	Elevation above mean sea level
Pelly and Liard portage, summit.	61 44	130 40	3,150
Finlayson lake.	61 42	130 30	3,105
Frances lake.	61 20	129 30	2,577
Campbell mountains.	61 20	129 40	5,500
Simpson Tower peak.	61 25	129 22	5,230
Logan peak.	61 33	129 04	9,000
Billings, mount.	61 15	128 50	7,950
Tent peak.	61 51	128 40	7,860
Quiet lake.	61 00	133 00	3,000
Simpson mountains.	60 45	129 30	6,500
South Fork mountains.	62 48	132 36	6,330
Russell mountains.	63 09	133 09	6,000
Plateau mountain.	63 06	133 51	5,980
Dromedary, mount.	62 54	134 42	5,835
Lone mountain.	62 54	134 54	3,235
McArthur mountains.	63 06	135 32	7,250
Kalzas range.	62 57	135 15	6,185
MacMillan mountains.	62 57	135 45	5,580
Hungary, mount.	63 24	136 18	5,772
Edith, mount.	61 22	135 20	4,320
Black ridge.	61 23	135 20	4,240
Anticline mountain.	61 23	135 30	4,390
Ottawa, mount.	61 14	135 42	3,790
Bellevue mountain.	61 23	135 45	3,680
Corduroy mountain.	61 19	135 47	3,980
Kingston, mount.	61 13	135 46	4,140
Division mountain.	61 20	135 57	3,750
Cub mountain.	61 23	135 53	3,680
Vowell, mount.	61 25	136 03	5,130
Contact mountain.	61 27	135 52	3,620
Joy, mount.	63 46	132 54	7,400
Albert, mount.	63 50	135 00	6,500
Ortell, mount.	64 00	132 48	7,000
Patterson, mount.	64 06	134 39	7,000
Cameron, mount.	64 06	135 00	6,600
McWilliams, mount.	64 27	134 36	6,600
Summit between Yukon and Mackenzie rivers.	64 34	134 54	3,500
Iltyd mountain.	65 16	135 06	4,200
Deception mountain.	65 39	135 25	2,500
Lewes, mount.	61 29	135 12	3,588
Mistake mountain.	61 26	135 21	3,486
Surprise mountain.	61 24	135 24	3,810
Big hill.	61 25	135 32	4,174
St. Hilary, mount.	61 23	135 41	3,650
Brachburn, mount.	61 26	135 42	3,339
Cone hill.	61 42	135 49	3,220
Conglomerate mountain.	61 38	135 53	3,460
Birch mountain.	61 46	135 51	3,970
Fairview mountain.	61 50	135 53	4,060
East mountain.	61 53	135 54	3,790
Green, mount.	61 50	135 55	4,080
Porphyry, mount.	61 52	135 59	4,250
Saddle mountain.	61 52	136 00	4,190
Flower, mount.	61 47	135 59	2,990
Andesite mountain.	61 53	136 03	4,150
Lone Pine mountain.	61 57	136 06	4,160
Stutzer, mount.	61 58	136 06	4,300

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YUKON SUNDRY ALTITUDES

	Lat.	Long.	Elevation above mean sea level
Morrison, mount.....	61 59	136 18	3,550
Monson, mount.....	62 08	136 24	2,980
Miller, mount.....	62 11	136 25	3,030
Milton, mount.....	62 12	136 14	3,340
Mayo lake.....	63 57	135 00	2,050
Haldane, mount.....	63 58	135 53	6,334
Potato hills.....	64 01	135 31	5,400
Hinton, mount.....	63 59	135 02	7,000
Albert, mount.....	63 58	135 01	6,600
Kluane lake.....	61 00	138 30	2,500
Kloo lake.....	60 59	137 50	2,750
Ruby camp.....	61 01	137 52	2,850
Road-house (Dezadeash river).....	60 57	137 38	1,800
The Dome.....	63 54	138 57	4,250
Leotta, mount.....	63 59	138 51	3,300
Yukon river, at mouth of Indian river.....	63 48	139 44	1,233
Dominion creek, at mouth of Gold Run creek.....	63 43	138 36	1,970
Ogilvie range.....	63 24	139 00	6,000

Miles from Whitehorse	No.	YUKON—GEODETIC SURVEY BENCH MARKS, WHITEHORSE TO 141 st MERIDIAN	Elevation above mean sea level
1.68	4	Nail in root of spruce, 179 ft. from junction of cut-off road.	2,186.54
2.56	5	Nail in stump, 981 ft. N. of road post, No. 20.	2,320.48
4.09	6	Tablet in boulder, top of hill, N. side, Mackintion creek.	2,404.57
7.56	8	Nail in root of pine, 1,392 ft. S. of mile 116.	2,358.29
8.82	9	Nail in stump, 670 ft. N. of mile 144.	2,266.57
9.79	10	Nail in stump, 813 ft. N. of mile 8.	2,209.02
10.26	11	Nail in stump, 145 paces N. of Ninemile road-house.	2,331.20
12.02	12	Nail in stump, 1,645 ft. N. of mile 11.	2,155.40
13.57	13	Nail in stump, 2,350 ft. N. of mile 12.	2,152.13
15.14	14	Nail in tree, 1,225 ft. from road post 1,002.	2,510.91
17.30	15	Nail in stump, 4,080 ft. N. of mile 16.	2,512.81
17.67	16	Tablet in rock, 27 paces S. of mile 17.	2,496.52
18.04	17	Nail in stump, 1,888 ft. N. of mile 17.	2,479.31
19.75	18	Nail in stump, 4,380 ft. S. of mile 20.	2,344.82
21.25	19	Nail in root of tree, 3,578 ft. N. of mile 20.	2,302.79
22.64	20	Iron pipe, 87 ft. from N.W. cor. of R.N.W.M.P. barracks.	2,107.18
22.73	21	Takhini, iron pipe, opp. ferry landing, N. of Takhini river.	2,105.47
23.29	22	Nail in stake, 424 ft. N. of road post 941.	2,731
24.22	23	Nail in stump, 3,388 ft. N. of mile 23.	2,219
25.70	24	Nail in root of spruce, 512 ft. N. of mile 25.	2,281.63
27.01	25	Nail in stump, 2,291 ft. N. of mile 26.	2,437.76
28.28	26	Nail in stump, 1,775 ft. S. of Yukon Crossing mile 123.	2,368.20
30.21	27	Nail in poplar, 3,363 ft. N. of mile 29.	2,283.61
32.39	28	Nail in stump, 4,355 ft. N. of mile 31.	2,144.97
33.49	29	Nail in stump, 550 ft. S. of mile 33.	2,152.11
35.62	30	Iron post, about 40 ft. S. of Little River bridge.	2,158.83
37.87	31	Nail in root of spruce, 1,450 ft. N. of mile 37.	2,218.32
39.02	32	Nail in spruce, 1,549 ft. N. of Yukon Crossing mile 113.	2,225.17
40.64	33	Nail in stump, 208 ft. N. of mile 40.	2,278.38
41.81	34	Nail in stump, 109 paces N. of Yukon Crossing mile-post.	2,309.90
41.81	34	Iron post, 12 ft. from B. M. 34.	2,311.16
43.76	35	Nail in stump, 733 ft. N. of road post 735.	2,519.80
44.99	36	Nail in stump, 220 ft. S. of mile 44.	2,781.17
46.44	37	Nail in stump, 2,230 ft. N. of mile 45.	2,794.69
48.53	38	Nail in stump, 2,710 ft. N. of mile 47.	2,843.45
49.33	39	Nail in stump, 3,260 ft. S. of mile 49.	2,757.62
51.50	40	Nail in stump, 3,016 ft. N. of mile 50.	2,752.55
54.17	41	Iron post, 60 paces from creek, source of Middle fork Nordenskiöld river.	2,736.65
56.46	42	Nail in root of spruce, 1,861 ft. N. of mile 53.	2,737.86
57.58	43	Nail in stump, 2,595 ft. N. of mile 56.	2,709.28
59.60	44	Nail in stump, 2,518 ft. N. of Yukon Crossing mile 93.	2,733.48
60.69	45	Nail in root, 2,830 ft. S. of Yukon Crossing mile 91.	2,667.52
63.35	46	Nail in root, 888 ft. N. of Yukon Crossing mile 89.	2,658.69
64.07	47	In boulder, 99.5 ft. N. of Police shack, Nordenskiöld.	2,626.43
65.55	48	Nail in root, 1,080 ft. N. of mile 64.	2,568.50
68.30	49	Nail in stump, 7 ft. N. of mile 67.	2,519.20
70.80	50	Nail in root, 2,610 ft. N. of mile 69.	2,456.08
71.82	51	Nail in stump, 2,530 ft. S. of mile 71.	2,418.22
73.39	52	Iron post, 82 paces N. of mile 72.	2,418.87
74.99	53	Nail in root, 3,570 ft. N. of mile 73.	2,443.70
78.11	54	Nail in root, 3,745 ft. N. of mile 76.	2,396.76
81.15	55	Nail in root, 3,825 ft. N. of mile 79.	2,324.50
82.88	56	Nail in root, 2,270 ft. N. of mile 81.	2,307.85
85.81	57	Iron post, 4 ft. from S.W. cor. of building, Braeburn.	2,247.76
86.45	58	Nail in root of poplar, 100 ft. S. of mile 85.	2,228.43
89.76	59	Nail in root of spruce, 1,380 ft. N. of mile 88.	2,172.73

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86-54
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04-57
58-29
66-57
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12-81
96-52
79-31
34-82
02-79
07-18
05-47
7-31
2-19
2-1-63
37-36
68-20
83-61
44-97
52-11
58-83
218-32
225-17
278-38
309-90
311-36
519-80
781-17
794-69
843-45
757-62
752-55
736-65
737-86
709-28
733-48
667-52
658-69
626-43
568-50
519-20
456-08
418-22
418-87
443-70
396-76
324-50
307-38
247-76
228-43
177-73

Miles from
Whitehorse

No.

YUKON GEODETIC SURVEY BENCH MARKS,
WHITEHORSE TO 161st MERIDIANElevation
above mean
sea level

92-59	60	Nail in root of spruce, 125 ft. N. of mile 91.....	2,174-36
94-43	61	Nail in root, 40 ft. S. of Yukon Crossing mile 58...	2,173-09
95-44	62	Nail in stump, 960 ft. S. of mile 94.....	2,117-13
96-86	63	Iron post, 31 paces S. of road house.....	2,103-19
98-21	64	Nail in root, 3,375 ft. N. of mile 96.....	2,096-55
100-38	65	Nail in stump, 4,350 ft. N. of mile 98.....	2,065-27
102-83	66	Nail in stump, 1,125 ft. N. of mile 101.....	2,030-36
105-61	67	Nail in stump, 142 ft. S. of mile 104.....	1,963-27
107-71	68	Nail in stump, 520 ft. N. of mile 106.....	1,942-91
108-04	69	Iron post, 3 ft. from S. W. cor. Police barracks, Montague	1,938-66
110-01	70	Nail in stump, 1,810 ft. N. of mile 108.....	2,008-45
112-88	71	Nail in stump, 895 ft. N. of mile 111.....	1,902-26
115-35	72	Nail in stump, 8,455 ft. N. along road from mile 112.....	1,933-74
116-52	73	Nail in stump, 1,605 ft. S. of mile 115.....	1,936-68
118-67	74	Nail in stump, 4,420 ft. N. of Yukon Crossing mile 35.....	1,964-01
120-74	75	Nail in stump, 4,690 ft. N. of mile 118.....	1,981-89
121-18	76	Iron post, 1,778 ft. N. of mile 119.....	1,912-45
123-99	77	Nail in stump, 545 ft. N. of mile 122.....	1,864-01
126-74	78	Nail in stump, 4,390 ft. N. of mile 124.....	1,837-02
128-50	79	Nail in stump, 3,030 ft. N. of mile 126.....	1,910-74
130-73	80	Nail in stump, 3,460 ft. N. of Yukon Crossing mile 23.....	1,778-45
131-67	81	Nail in stump, 1,325 ft. W. of pier, Tantalus barracks.....	1,722-34
131-92	82	Tablet in pier.....	1,718-33
133-81	83	Nail in stump, 2,020 ft. N. of mile 20.....	1,753-57
136-10	84	Nail in root, 3,565 ft. N. of mile 18.....	1,824-11
137-07	85	Nail in stump, 3,060 ft. N. of mile 17.....	1,888-61
138-60	86	Nail in stump, 505 ft. N. of mile 15.....	1,745-63
139-58	87	Nail in stump, 1,915 ft. N. of junc. of old and new roads.....	1,742-38
140-54	88	Iron post, 2,982 ft. N. of angle post 106.....	1,748-84
141-75	89	Nail in stump, 2,709 ft. N. of mile 12.....	1,720-00
143-71	90	Nail in stump, 2,272 ft. N. of mile 10.....	1,958-96
146-38	91	Nail in stump, 4,947 ft. N. of mile 9.....	1,925-90
148-69	92	Nail in stump, 7,159 ft. N. of mile 6.....	1,818-49
151-11	93	Nail in root, 12,536 ft. N. of mile 5.....	1,683-53
153-77	94	Iron-post in road-house garden, Yukon Crossing.....	1,597-44
153-96	95	Iron post, 3 ft. N. of road post "45 miles 2,200 ft. from Pelly river"	1,613-22
156-03	96	Nail in stump, 3,520 ft. N. of mile 44.....	1,814-58
158-03	97	Nail in stump, 7,478 ft. N. of mile 42.....	1,838-97
159-40	98	Nail in stump, 2,055 ft. N. of mile 41.....	1,784-74
161-06	99	Nail in stump, 1,614 ft. N. of mile 39.....	1,768-11
163-77	100	Nail in stump, 1,387 ft. N. of mile 36.....	1,713-25
166-33	101	Nail in stump, 8,128 ft. N. of mile 34.....	1,632-10
168-68	102	Nail in stump, 320 ft. N. of mile 31.....	1,648-40
170-76	103	Nail in stump, 730 ft. N. of mile 30.....	1,646-04
172-31	104	Nail in root of poplar, 3,600 ft. N. of mile 28.....	1,548-93
175-16	105	Nail in stump, 2,815 ft. N. of mile 25.....	1,516-56
176-65	106	Iron post, in fence of Police barracks, Minto.....	1,520-77
177-77	107	Nail in stump, 672 ft. N. of mile 22.....	1,535-66
179-13	108	Nail in stump, 2,714 ft. N. of mile 21.....	1,700-88
181-00	109	Nail in stump, 1,713 ft. N. of mile 19.....	1,501-75
182-26	110	Nail in stump, 3,441 ft. N. of mile 18.....	1,504-20
184-85	111	Nail in stump, 1,176 ft. N. of mile 15.....	1,494-09
185-67	112	Iron post, 79 ft. N. of mile 14.....	1,191-73
189-20	113	Nail in stump, 3,007 ft. N. of mile 11.....	1,478-83
192-02	114	Nail in stump, 2,094 ft. N. of mile 8.....	1,508-18
194-47	115	Nail in stump, 4,397 ft. N. of mile 6.....	1,635-02

Miles from Whitehorse	No.	YUKON-GEODETIC SURVEY BENCH MARKS, WHITEHORSE TO 141st MERIDIAN	Elevation above mean sea level
195.63	116	Nail in stump, 5,163 ft. N. of mile 5	1,564.59
196.48	117	Nail in stump, 4,270 ft. N. of mile 4	1,424.99
199.65	118	Pelly River, iron post, 48 paces from road-house...	1,427.53
200.03	119	Iron post opp. road-house...	1,432.62
202.14	120	Nail in stump, 158 ft. N. of mile 5	1,626.45
203.38	121	Nail in stump, 1,463 ft. N. of mile 53	1,842.05
203.77	122	Nail in stump, 3,515 ft. N. of mile 53	1,924.48
205.33	123	Nail in stump, 1,229 ft. N. of mile 51	2,143.25
207.31	124	Nail in stump, 950 ft. N. of mile 49	2,237.55
209.50	125	In rock, 1,929 ft. N. of mile 47	2,105.79
209.77	126	Nail in stump, 3,311 ft. N. of mile 47	2,094.36
210.69	127	Nail in stump, 2,920 ft. N. of mile 45	2,126.68
210.82	128	Iron post, 3,593 ft. N. of mile 46	2,108.14
212.29	129	Nail in stump, 834 ft. N. of mile 41	2,260.42
214.30	130	Nail in stake, 148 ft. N. of mile 42	2,318.96
215.85	131	Nail in stump, 3,236 ft. N. of mile 41	2,403.69
219.23	132	Hume, iron post, 10 ft. N. of mile 37	2,261.09
219.37	133	Nail in stump, 84 paces N. of road-house (wrongly marked 134)	2,229.68
220.98	134	Nail in stump, 4,208 ft. N. of mile 36 (wrongly marked 135)	2,143.96
223.89	135	Nail in stump, 3,789 ft. N. of mile 33	2,030.88
225.06	136	Nail in stump, S.E. of Police barracks, Grand Valley...	1,976.79
225.46	137	Nail in stump, 1,103 ft. N. of mile 31	2,142.51
227.05	138	Nail in stump, 4,047 ft. N. of mile 30	2,760.97
227.44	139	Nail in stump, 675 ft. N. of mile 29	2,882.12
228.81	140	Nail in stump, 2,332 ft. N. of mile 28	2,653.92
229.80	141	Nail in stump, 2,708 ft. N. of mile 27	2,411.69
230.49	142	Nail in stump, 1,068 ft. N. of mile 26	2,132.10
231.50	143	Iron post, 970 ft. N. of mile 25	2,296.89
232.11	144	Nail in stump, 4,181 ft. N. of mile 25	2,523.81
234.09	145	Nail in stump, 4,054 ft. N. of mile 23	2,715.17
235.55	146	Nail in stake, 1,272 ft. N. of mile 21	2,664.77
236.97	147	Nail in stump, 3,465 ft. N. of mile 20	2,423.88
237.73	148	Iron post, 2,232 ft. N. of mile 19, Stevens	2,240.66
238.85	149	Nail in stake, 2,852 ft. N. of mile 18	2,284.05
240.37	150	Nail in stump, 351 ft. N. of mile 16	2,067.25
242.26	151	Nail in stump, 5,047 ft. N. of mile 15	1,967.38
243.01	152	Nail in stump, 3,731 ft. N. of mile 14	1,889.31
243.66	153	Nail in stump, 1,494 ft. N. of mile 13	1,574.66
245.39	154	Nail in stump, 5 ft. from mile 11	1,640.45
246.64	155	Iron post, 14 paces E. of bridge, Rosebud creek	1,467.82
248.05	156	Nail in stump, 3,070 ft. N. of mile 9	1,837.8
249.40	157	Nail in stump, 4,942 ft. N. of mile 8	2,386.11
251.05	158	Nail in stump, 8,294 ft. N. of mile 7	2,143.4
252.77	159	Nail in stump, 6,861 ft. N. of mile 5	1,881.8
253.95	160	Nail in stump, 2,500 ft. N. of mile 3	1,699.23
255.35	161	Nail in stump, 4,515 ft. N. of mile 2	1,362.64
256.35	162	Iron post, junction of roads of Stewart river	1,286.64
257.17	163	Iron post, inside Mrs. Stewart's fence	1,285.39
259.20	164	Nail in stump, 1,080 ft. N. of mile 2	1,413.58
261.35	165	Nail in stump, 2,218 ft. N. of mile 4	1,462.61
263.31	166	Nail in stump, 2 ft. behind spruce, marked 6½ miles	1,596.97
264.57	167	Nail in stump, 3,359 ft. N. of mile 7	1,716.98
266.44	168	Nail in stump, 2,763 ft. N. of mile 9	1,847.69
268.13	169	Iron post, 1,075 ft. N. of mile 11	2,105.8

ation
mean
levelMiles from
Whitehorse

No.

YUKON GEODETIC SURVEY BENCH MARKS,
WHITEHORSE TO 141st MERIDIANElevation
above mean
sea level

564.59	269.21	170	Nail in stump, 1,052 ft. N. of mile 12.....	2,210.52
124.99	271.25	171	Nail in stump, 6,059 ft. N. of mile 14.....	2,493.84
127.53	273.55	172	Nail in stump, 4,426 ft. N. of mile 15.....	2,934.17
132.62	73.47	173	Nail in stump, 60 ft. S. of mile 17.....	3,268.21
126.45	75.00	174	Nail in stump, 422 ft. N. of Eureka mile 15.....	3,204.16
142.05	76.01	175	Nail in stump, 351 ft. S. of mile 14.....	2,960.13
124.48	77.23	176	Nail in stump, 135 ft. N. of Eureka mile 13.....	2,646.53
143.25	277.95	177	Nail in stump, 2,708 ft. N. of Stewart mile 21.....	2,513.23
237.55	280.67	178	Nail in stump, 110 ft. N. of Eureka mile 10.....	2,226.74
105.79	281.73	179	Wounded Moose, iron post, 40 ft. N. of creek.....	2,013.35
194.36	282.62	180	Nail in stump, opp. mile 8.....	2,171.47
126.68	283.71	181	Nail in stump, 543 ft. N. of mile 7.....	2,483.15
108.14	284.82	182	Nail in stump, 60 ft. W. of road, 1,269 ft. N. of mile 6.....	2,956.80
260.42	285.67	183	Nail in stake, 339 ft. N. of mile 5.....	3,194.75
318.99	287.91	184	Nail in stump, 12,180 ft. N. of mile 5.....	3,072.63
403.69	289.09	185	Nail in stump, 2,770 ft. N. of mile 2.....	2,523.61
261.09	290.50	186	Nail in stump, near first shack, S. of bridge, Eureka creek.....	1,905.53
	290.70	187	Iron post, 10 paces N. of N. W. end of stables, Eureka.....	1,900.14
229.98	292.19	198*	Nail in stump, W. of road.....	2,491.53
143.96	294.50	199	Nail in stump, 400 ft. from junc. of old Black Hills trail.....	2,217.46
130.88	296.86	200	Nail in top stump, W. of road.....	1,684.83
176.79	297.45	201	Nail in stake, S. W. cor. of road-house.....	1,628.38
142.51	297.45	201A	Iron post, 30 paces from N. E. cor. of road-house.....	1,639.74
760.97	299.44	202	Nail in root of stump, W. of road.....	1,990.11
882.12	299.98	203	Nail in root of stump, W. of road.....	1,971.53
653.92	302.33	204	Nail in root of stump, E. of road.....	1,717.52
411.69	305.01	205	Iron post, 34 paces S. of middle bridge, Mackinnon creek.....	1,497.74
132.10	305.08	206	Nail in stump, 78 paces from bridge, Mackinnon creek.....	1,488.81
296.89	308.57	207	Nail in stump, 200 paces from Racford P.O.....	1,561.58
523.81	310.49	208	Nail in stake, foot of hitching post for horses.....	1,771.83
715.17	313.17	209	Nail in root of stump, E. of road.....	2,166.42
664.77	314.61	210	Cadder Summit, iron post, 102 paces E. of road-house.....	2,700.60
423.88	311.70	211	Nail in root of stump east of road.....	2,691.71
240.66	317.13	212	Nail in stake, 75 ft. from bridge, Chief gulch.....	2,066.87
284.05	319.22	213	Nail in stake, on claim 31, Eldorado creek.....	1,823.93
067.25	321.12	214	Nail in stake, east of road.....	1,654.01
067.38	322.24	215	Iron post, 326 ft. N. along track from Grand Forks station.....	1,633.55
889.31	322.47	216	Nail in stump, N. end of first rock N. of station.....	1,638.41
574.06	325.48	217	Nail in stake, E. of track.....	1,426.59
640.45	327.06	218	In rock, 117 ft. S. of culvert on claim 47, Bonanza creek.....	1,333.70
467.87	327.09	219	Nail in sill, W. side, culvert on claim 47, Bonanza creek.....	1,310.60
837.88	328.74	220	Nail in root of stump, 50 ft. W. of track.....	1,278.94
386.11	332.48	221	Rivet head, E. and S. strut post of Ogilvie bridge.....	1,041.97
143.41	333.58	222	Bronze cap, in rock, 278 paces S. of Old Klondike bridge.....	1,018.17
881.88	334.06	223	Bronze cap in pier behind Administration Bldg., Dawson.....	1,049.90
699.21	334.82	224	Bronze tablet in rock, opp. ferry landing, Dawson.....	1,038.29
362.04	335.58	225	Nail in root of stump, 20 ft. S. of road.....	1,280.60
286.61	336.41	226	Nail in root of stump, 30 ft. S. of road.....	1,724.51
285.89	337.14	227	Nail in stake, N. of road.....	1,009.63
414.58	337.91	228	Nail in stake, N. of road.....	2,106.38
462.61	339.17	229	Nail in stump, halfway up first steep grade.....	2,767.02
596.91	340.30	230	Nail in stake, N. of road.....	3,047.08
716.98	341.11	231	Iron post, 15 ft. N. of road on high knoll.....	3,253.15
847.69	341.32	232	Nail in top of stump, 13 paces N. of road.....	3,230.36
105.84	343.52	233	Nail in root of stump, 30 ft. N. of road.....	3,531.91

* No benches numbered 188 to 197.

Miles from Whitehorse	No.	YUKON - GEODETIC SURVEY BENCH MARKS, WHITEHORSE TO 141st MERIDIAN	Elevation above mean sea level
345.37	234	Nail in stake, 0.5 mile W. of Tenmile road-house	3,730.07
346.20	235	Nail in stake, near stream from snow bank	3,728.20
348.08	236	Nail in stump, S. of road, at W. end of road	3,651.58
350.13	237	Iron post, 0.4 mile W. of Fifteen-mile spring	3,635.20
352.46	238	Nail in stump, 1/2 mile W. of Seventeen-mile water-hole	3,715.01
354.25	239	Nail in stump, 100 ft. N. of road	3,733.33
355.53	240	Nail in stump, N. of road, horseshoe bend	3,677.09
358.02	241A	Iron post, 128 paces E. of barn, Twentyfour-mile	3,533.70
358.03	241	In quartz rock, 30 ft. W. of 241 A	3,533.44
358.98	242	Nail in stake, N. of road	3,701.96
360.36	243	Nail in stump, past second hill from road-house	3,517.65
361.96	244	Nail in stump, E. side of top of hill	3,595.94
362.99	245	Nail in stake, 6 ft. from road on S. side	3,533.89
365.09	246	Nail in stake, halfway up hill E. of Thirty-mile road-house	3,646.19
367.30	247	Iron post, 123 paces from Thirtymile spring	3,471.11
368.01	248	Nail in stake, W. of Thirtymile spring	3,752.65
370.43	249	Nail in stake, 1/2 mile past old camping place	3,693.62
371.52	250	Nail in stake, N. of Swede Creek dome	3,832.18
371.68	251	Nail in stake, foot of steep grade W. of Swede Creek dome	3,788.58
372.84	252	Nail in stump, near second steep grade W. of Swede Creek dome	3,318.28
375.33	253	Iron post, 0.2 mile E. of Fortyone-mile road-house	3,153.05
376.47	254	Nail in stump, first grade W. of road-house	3,197.08
378.42	255	Nail in stump, near third up grade from Fortyone-mile	3,217.84
379.54	256	Nail in stake, 40 ft. W. of water hole	3,185.70
380.05	257	Nail in stump, near third down grade from Fortyone-mile	3,346.74
380.59	258	Nail in stump, N. of road	3,377.66
382.65	259	Nail in stump, E. of Fortyone-mile house	3,341.01
384.61	260	Iron post, E. of road house, Fortynine-mile	3,372.33
385.80	261	Nail in stump, S. of road	3,296.57
388.05	262	Nail in stump, 40 ft. N. of road	3,453.39
389.16	263	Nail in stump, 50 ft. N. of road	3,164.07
390.43	264	Nail in root of spruce, 3 ft. N. of road	2,849.70
391.24	265	Nail in stump, 200 yds. E. of Big Gold creek	2,342.73
392.73	266	Iron post, top of first hill, E. of road-house, Glacier Hill	2,679.73
393.97	267	Nail in stump, 30 ft. S. of road	3,150.12
395.05	268	Nail in stump, 40 ft. N. of road	3,676.55
396.49	269	Nail in stake, first gulch to right of Glacier dome	4,000.47
398.11	270	Nail in stake, 10 ft. to N. side of pack trail	4,093.68
399.25	271	Nail in stake, W. of pack trail to Walker fork	4,245.87
400.91	272	Iron post, 15 ft. N. of International Boundary monument	4,239.06
		Base of Monument 'G'	4,238.09
		Top of Monument 'G'	4,240.18

BENCH MARKS—YUKON AND ALASKA BOUNDARY—141st MERIDIAN

Number	Latitude	Elevation above mean sea level	Number	Latitude	Elevation above mean sea level
1	69 38 45	21.3	50	67 25 01	778.6
2	69 35 22	58.6	51	67 24 08	800.6
3	69 31 50	265.8	52	67 22 08	2,019.3
4	69 28 30	1,261.3	53	67 20 24	2,149.1
5	69 25 05	2,521.5	54	67 18 21	1,855.2
6	69 23 01	2,692.0	55	67 16 15	1,849.2
7	69 21 13	2,434.3	56	67 13 17	1,312.8
8	69 17 55	5,146.0	57	67 10 02	1,861.4
9	69 15 12	4,300.3	58	67 07 44	2,488.9
10	69 12 20	3,014.6	59	67 04 23	2,067.9
11	69 10 23	5,173.2	60	67 01 42	1,362.7
12	69 08 59	5,332.6	61	66 58 09	2,573.8
13	69 07 34	3,752.4	62	66 56 24	3,019.1
14	69 04 08	3,899.2	63	66 53 13	3,472.0
15	69 01 46	3,597.9	64	66 49 32	3,794.5
16	69 00 15	3,357.6	65	66 47 14	3,312.7
17	68 56 58	3,974.1	66	66 43 02	2,177.1
18	68 54 10	3,572.5	67	66 39 07	2,481.7
19	68 50 41	3,794.9	68	66 37 49	2,724.5
20	68 48 38	4,331.8	69	66 34 42	2,189.9
21	68 44 56	3,449.8	70	66 32 55	1,725.4
22	68 43 14	3,153.6	71	66 29 42	1,274.7
23	68 40 35	2,499.3	72	66 26 18	2,288.9
24	68 37 59	1,675.8	73	66 24 53	2,933.9
25	68 35 14	2,269.8	74	66 22 23	2,663.1
26	68 33 21	2,682.8	75	66 18 37	2,740.3
27	68 30 06	2,397.1	76	66 14 59	2,853.5
28	68 26 11	1,831.7	77	66 13 58	3,011.6
29	68 23 20	2,924.8	78	66 10 43	2,804.3
30	68 21 03	1,938.5	79	66 09 55	2,826.7
1	68 18 38	1,204.8	80	66 07 35	2,859.4
2	68 13 06	1,023.5	81	66 04 40	3,536.6
33	68 13 02	1,020.5	82	66 03 12	3,197.7
34	68 11 09	1,032.9	83	66 00 19	2,929.3
35	68 08 46	1,088.1	84	65 57 27	2,063.9
36	68 05 39	1,255.6	85	65 55 21	2,597.1
37	68 02 49	1,469.4	86	65 52 36	2,740.5
38	68 02 26	1,479.9	87	65 49 50	1,969.9
39	67 57 28	1,181.4	88	65 46 25	2,374.8
40	67 54 13	1,303.2	89	65 44 03	1,670.2
41	67 51 36	1,187.7	90	65 41 22	2,167.5
42	67 49 28	1,731.0	91	65 37 46	3,191.0
43	67 47 16	1,462.3	92	65 35 00	3,673.9
44	67 43 50	3,326.0	93	65 32 24	3,576.3
45	67 42 54	3,157.5	94	65 29 36	3,123.6
46A	67 39 28	2,160.3	95	65 26 48	1,669.5
47	67 35 53	2,232.9	96	65 24 05	3,625.5
47A	67 34 02	2,572.5	97	65 21 24	4,745.1
48	67 30 54	1,652.9	98	65 20 10	4,224.5
48A	67 29 38	2,029.7	99	65 16 13	4,778.9
49	67 27 37	1,977.0	100	65 12 13	2,202.8
49A	67 27 10	1,929.6	101	65 09 34	4,180.6
	67 25 36	1,286.8	102	65 05 15	2,092.0

BENCH MARKS—YUKON AND ALASKA BOUNDARY—141st MERIDIAN

Number	Latitude	Elevation above mean sea level	Number	Latitude	Elevation above mean sea level
103	65 01 51	3,430.3	145	63 20 38	1,670.8
104	64 59 29	1,095.2	146	63 17 41	3,110.5
105	64 54 59	4,215.4	147	63 16 04	1,479.4
106	64 52 02	2,732.1	148	63 13 29	2,993.1
107	64 50 14	1,704.6	149	63 10 47	3,878.5
108	64 47 57	2,304.7	150	63 09 35	3,891.6
109	64 45 33	2,573.4	151	63 07 34	3,471.9
110	64 42 35	1,697.9	152	63 04 39	3,099.7
111	64 41 06	1,036.0	153	63 01 18	2,755.0
112	64 40 51	897.3	154	62 58 12	2,283.4
113	64 39 28	2,477.3	155	62 55 28	2,147.8
114	64 37 51	2,988.9	156	62 52 57	1,913.3
114A	64 36 21	2,907.1	157	62 50 30	2,656.7
115	64 35 39	3,395.1	158	62 49 00	3,505.7
115A	64 32 33	2,830.6	159	62 45 21	3,256.5
116	64 29 32	2,801.1	160	62 43 48	3,221.1
117	64 28 16	2,946.4	161	62 40 32	2,323.8
118	64 25 20	3,271.7	162	62 38 17	1,831.7
118A	64 22 21	2,603.9	163	62 35 09	2,182.3
119	64 21 14	2,542.3	164	62 34 00	2,679.3
120	64 20 22	2,315.8	165	62 31 24	1,973.7
121	64 18 53	1,240.3	166	62 28 18	2,681.4
122	64 18 19	1,701.0	167	62 27 13	2,084.2
123	64 16 29	1,814.4	168	62 24 02	2,159.5
123A	64 14 26	2,348.7	169	62 18 25	2,340.2
124	64 12 23	2,749.0	170	62 13 24	2,584.6
125	64 08 51	3,131.6	171	62 10 00	3,446.1
125A	64 06 54	3,064.5	172	62 07 40	4,234.9
126	64 05 10	4,238.0	173	62 06 24	3,168.0
126A	64 04 18	4,072.6	174	62 04 12	5,566.3
127	64 01 09	4,227.3	175	62 03 16	5,561.8
128	63 58 18	3,824.3	176	62 01 41	5,154.4
129	63 55 53	3,821.5	176A	61 58 32	3,867.0
130	63 54 29	2,622.3	177	61 57 54	3,450.5
131	63 54 24	2,556.3	178	61 56 27	5,515.2
132	63 52 41	3,456.7	179	61 53 23	4,205.1
133	63 48 60	5,031.0	180	61 50 30	6,791.0
134	63 46 38	2,576.9	181	61 48 40	6,447.3
135	63 45 02	3,892.0	182	61 44 43	3,125.3
136	63 41 48	3,351.2	183	61 43 51	3,089.6
137	63 39 22	2,581.7	184	61 43 05	3,475.5
138	63 36 52	1,845.4	185	61 39 45	3,548.6
139	63 34 33	1,822.0	186	61 39 05	3,799.7
140	63 33 21	2,580.1	187	61 37 13	4,363.5
141	63 31 05	2,963.0	187A	61 35 48	5,733.1
142	63 28 06	3,253.2	189	60 52 58	8,594.1
143	63 25 16	3,223.4	190	60 52 20	5,920.4
144	63 22 44	2,728.0	191	60 49 25	5,300.1

NORTH WEST TERRITORIES—SUNDRY ALTITUDES	Lat.	Long.	Elevation above mean sea level
White Partridge or Kasba lake.....	60 30	102 25	1,270
Ennadai lake.....	60 50	104 30	1,100
Selwyn lake.....	60 10	104 30	1,340
Wholdiah or Daly lake.....	60 30	104 00	1,290
Dubawut lake.....	63 00	101 30	500
Wharton lake.....	64 00	100 20	300
Hill, N. of Thelon river, seven miles below 'forks'.....	63 45	103 55	1,400
Albott lake.....	63 50	106 20	1,320
Divide between Thelon river and Clinton-Colden lake....	63 40	107 08	1,234
Artillery lake.....	63 15	107 30	1,188
Harry, lake.....	62 42	108 35	1,090
French, lake.....	62 43	108 25	1,080
Acres, lake.....	62 44	108 26	1,074
Kipling, lake.....	62 48	108 26	1,075
Burr, lake.....	62 49	108 21	1,131
Douglas, lake.....	63 20	107 20	1,343
Casba lake.....	63 35	107 20	1,220
Clinton-Colden lake.....	64 00	107 30	1,221
Deville, lake.....	63 35	107 00	1,206
Smart, lake.....	63 32	106 40	1,202
Sifton, lake.....	63 40	106 25	1,197
Bois, Lac du.....	63 32	105 36	1,148
Sandy lake.....	63 48	104 30	940
Beverly, lake.....	64 30	100 00	133
Yathkyed lake.....	62 45	97 15	300
Kaminurak lake.....	63 00	95 20	320
Lady Marjorie lake.....	61 10	99 50	260
Aberdeen lake.....	64 30	99 30	130
Schultz lake.....	64 45	98 00	115
Baker lake.....	64 10	96 00	30
Minto, mount.....	63 50	81 00	1,050
Clark mountain.....	64 28	121 11	3,000-4,000
Great Slave lake.....	62 00	114 0	520
Great Bear lake.....	66 00	120 00	391
Bear rock.....	64 56	125 40	1,400
Rock-by-the-river-side.....	63 21	123 38	1,500
Mackenzie river, at confluence of Twitya river.....	64 26	124 15	250
Tigonankweine range.....	64 00	127 15	7,000
Eduni, mount.....	64 18	128 06	1,140
Deltmore, mount.....	63 38	128 08	6,800
Sekwi, mount.....	63 32	128 34	6,500
Christie pass.....	63 04	129 26	4,525
Stokes range.....	70 20	101 40	1,300
Wilmot, mount.....	76 30	103 00	800
Jeffries range.....	76 10	99 30	1,500
Bylot island.....	73 00	79 00	2,200
Sillem island.....	71 00	74 30	3,000
Bruce mountains.....	71 00	72 00	4,000-5,000
Prince of Wales mountains.....	78 30	78 30	2,000
Range, twenty-five miles N.W. of head of Hayes sound...	79 15	80 30	3,000-4,000
Peak behind Cape Union.....	82 15	62 20	2,200
Pullen, mount.....	82 30	62 20	1,700
Cheops, mount.....	82 35	65 30	4,800
Grant, mount.....	82 28	65 15	1,900
Rawlinson, mount.....	82 40	68 30	5,000
Frere, mount.....	82 40	69 30	5,000
Disraeli, mount.....	82 52	67 15	2,500

NORTH WEST TERRITORIES—SUNDRY ALTITUDES	Lat.	Long.	Elevation above mean sea level
Gladstone, mount.....	82 54	67 00	2,500
Foster, mount.....	82 52	66 45	2,000
Giffard, mount.....	82 58	68 15	2,300
Hornby, mount.....	83 00	70 00	2,000
Cooper Key mountains.....	83 06	70 30	1,800
Challenger mountains.....	82 22	81 00	2,000
Neville, mount.....	81 10	70 30	3,800
C. S. Smith, mount.....	81 13	74 20	3,700
Connell, mount.....	81 29	74 45	4,000
C. A. Arthur, mount.....	81 13	74 30	4,500
Britannia, mount.....	76 55	96 30	1,500
Trüter mountains.....	75 40	81 00	2,000
Blanche mountain.....	76 40	91 30	2,000
Kent island.....	76 40	90 00	2,000

WATER LEVELS OF THE ST. LAWRENCE AND GREAT LAKES

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ST. LAWRENCE RIVER FROM PRESCOTT TO MONTREAL

Monthly mean of water levels above or below the zero of gauge at Ogdensburg and above mitre sills of the several locks at the places named.

Month	Ogdens- burg	Galops Canal		Mor- ris- burg, Lock 23	Far- ran Point, Lock 22	Corn- wall, Lock 15	Val- ley- field, Lock 14	Me- loche- ville, Lock 6	La- chine, Lock 5	Mont- real, Lock 1
		Lock 27	Lock 25							
1870	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet
January.....	1.69	10.75	12.25	10.42	8.04	17.08	12.83	12.75	11.75	33.08
February.....	1.73					25.42	12.98	11.75	11.50	32.17
March.....	1.53	10.50	12.25	10.50	7.92	22.83	12.36	14.42	10.92	29.83
April.....	2.72	11.50	14.25	11.83	9.42	13.25	13.31	14.50	14.75	30.25
May.....	3.24	12.67	15.67	12.58	10.83	12.42	13.42	14.07	14.92	24.42
June.....	2.97	12.42	15.33	12.33	10.75	12.08	13.28	13.08	12.58	20.67
July.....	2.73	12.25	15.17	12.08	10.50	11.92	13.17	12.50	11.92	19.33
August.....	2.40	11.75	14.08	11.42	10.33	11.67	12.94	11.75	11.42	18.75
September.....	1.56	10.67	13.58	10.75	9.92	11.17	12.54	10.92	10.83	18.08
October.....	1.24	10.50	13.00	10.50	9.50	10.92	12.44	10.42	10.67	17.67
November.....	1.01	10.33	12.25	10.17	9.25	10.58	12.28		11.00	18.50
December.....	*0.87	10.08	12.08	10.04	8.75	11.00	12.19	10.92	10.75	18.75
1895						New lock				
January.....		8.00	8.83	6.92	8.33	15.83	11.50	12.75	10.75	28.92
February.....		7.17	7.50	7.42	7.25	14.17	10.57	15.67	9.08	24.67
March.....		7.42	8.00	7.92	7.33	14.08	10.68	13.17	8.58	23.08
April.....		8.50	9.92	7.50	8.33	(15.69)	11.95	12.17	11.75	25.33
May.....	-0.50	8.83	10.33	7.75	8.50	15.25	11.46	12.33	12.33	20.50
June.....	-0.67	8.67	10.17	7.58	8.33	15.08	11.28	11.17	11.33	18.58
July.....	-0.92	8.33	9.67	7.17	8.08	(14.70)	10.96	9.67	9.83	15.83
August.....	-1.09	8.25	9.42	6.92	7.92	14.67	10.98	9.17	9.50	15.33
September.....	-1.54	7.92	8.83	6.42	7.50	14.33	10.54	8.67	8.92	14.50
October.....	*-1.75	7.67	8.33	5.92	7.17	14.04	10.39	8.58	8.67	13.83
November.....		7.42	7.83	5.70	6.67	13.62	10.17	8.33	8.50	13.83
December.....		7.58	7.83	5.92	7.00	14.33	10.47	9.67	9.67	21.08

* No record for the last seven days of the month.

NOTE.—Interpolated monthly means are indicated by parentheses. The interpolation (April and July, 1895) at Cornwall was made by comparing with the record at Valleyfield and assuming that the slope between the two points was practically the same as for the preceding and following months.

Elevations of the several planes of reference, in feet, above mean tide at New York:—

Ogdensburg.....	244.63	Cornwall, new lock 15.....	137.45
Galops, old lock 27.....	233.32	Valleyfield, old lock 14.....	140.75
Galops, old lock 25.....	210.69	Melocheville, old lock 6.....	59.06
Morrisburg, old lock 23.....	203.99	Lachine, old lock 5.....	56.62
Farran Point, old lock 22.....	191.94	Montreal, old lock 1.....	5.41
Cornwall, old lock 15.....	143.03		

RIVER ST. LAWRENCE AT MONTREAL.

Depth of water in feet and decimals in Montreal harbour over midre sill on old lower lock of the Lachine canal, deduced from gaugings taken at noon each day. Elevation of the midre sill is 5.41 feet above mean tide at New York.

Levels for the period 1860-1895, from the Report of U. S. Deep Waterways Commission; for the period 1895-1914, from information furnished by Mr. Ernest Marcrau, Superintending Engineer, Quebec Canals.

Year	Month												Mean
	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
1860.	38.16	34.24	34.16	28.24	28.49	25.91	24.83	24.24	23.91	24.16	24.91	29.41	28.39
1861.	38.58	35.99	36.33	35.91	31.66	29.08	26.99	25.49	24.49	24.49	26.08	26.41	30.13
1862.	38.99	36.99	36.49	35.58	30.24	26.91	25.16	24.66	24.83	24.83	24.49	27.49	29.68
1863.	33.91	35.41	33.83	35.58	28.99	26.66	25.16	24.24	23.66	23.66	24.49	27.49	28.59
1864.	38.83	36.41	34.99	30.91	30.83	26.83	24.66	23.74	23.41	24.24	25.08	27.58	28.96
1865.	38.33	36.58	36.58	32.74	29.49	26.49	25.74	24.58	23.16	22.41	22.16	25.24	28.63
1866.	34.66	32.33	32.41	32.16	27.24	27.08	25.16	24.24	24.91	24.24	25.49	27.58	28.13
1867.	39.33	37.74	36.58	35.49	30.41	29.24	26.24	24.41	23.41	22.99	22.16	30.99	29.92
1868.	33.08	30.58	32.58	30.58	26.33	25.41	23.33	22.58	22.33	21.83	22.49	29.24	26.61
1869.	33.99	31.58	30.99	35.66	30.66	27.24	25.83	25.16	25.41	25.66	23.91	31.08	28.90
1870.	38.49	37.58	35.24	35.66	29.83	26.08	24.74	24.16	23.49	23.08	23.91	32.41	28.87
1871.	36.74	34.58	35.58	33.16	28.83	25.91	24.33	23.24	22.41	21.91	21.83	32.91	28.08
1872.	32.66	30.74	31.16	33.16	26.58	25.58	23.08	22.16	22.24	22.99	22.58	25.16	26.51
1873.	31.33	30.16	30.66	30.83	29.58	27.66	25.08	23.74	22.66	23.58	23.91	31.16	28.03
1874.	38.99	36.41	35.91	33.66	27.58	28.66	25.99	23.53	22.41	22.66	22.24	31.83	28.72
1875.	33.24	30.66	31.16	33.66	28.16	25.58	23.49	22.91	22.24	22.33	22.16	34.24	27.40
1876.	33.41	32.24	33.99	36.24	32.83	29.74	26.66	24.24	23.49	23.08	23.24	31.58	29.27
1877.	35.74	33.74	33.74	31.49	25.33	23.91	23.49	22.91	23.08	21.91	22.33	22.99	26.69
1878.	32.33	30.24	31.99	25.16	25.91	24.49	23.66	23.74	23.24	23.74	24.91	25.91	26.78
1879.	29.33	35.91	34.24	33.91	29.41	26.16	24.16	23.08	22.41	21.91	21.49	26.33	27.36
1880.	35.74	33.33	32.49	31.24	28.49	26.83	24.33	22.99	22.41	22.08	23.49	27.91	27.60
1881.	32.66	30.49	31.74	28.91	26.74	24.66	23.16	22.41	21.58	21.16	21.16	21.66	25.56
1882.	31.21	35.33	34.08	27.58	27.58	26.99	26.16	24.40	23.91	22.91	22.66	27.91	27.63
1883.	31.71	30.41	31.16	33.83	26.99	27.58	26.83	24.91	23.58	23.33	23.83	28.49	27.72
1884.	39.58	36.83	36.49	30.16	20.49	26.33	21.66	24.16	23.08	22.99	23.33	27.49	29.22
1885.	30.99	33.41	31.91	30.33	29.91	27.16	26.08	24.24	23.49	24.74	23.49	27.15	28.74
1886.	39.83	37.16	34.74	37.08	28.83	26.49	25.24	24.24	23.41	23.41	23.49	30.99	29.58

1887.	35.49	34.24	34.91	38.49	30.99	26.49	24.66	23.49	21.49	21.99	21.58	23.41	28.10
1888.	35.08	31.08	31.99	34.91	28.33	27.24	24.41	22.91	22.58	22.16	23.41	25.74	27.49
1889.	33.74	31.74	33.08	30.08	26.58	27.49	25.49	23.91	22.49	22.24	21.74	22.99	27.05
1890.	35.08	33.33	36.83	31.83	28.99	29.16	26.24	24.41	22.49	23.41	23.33	22.91	26.93
1891.	34.08	32.58	34.74	33.66	28.33	29.91	23.66	23.41	22.41	21.33	21.08	22.91	26.93
1892.	29.58	33.91	31.16	28.74	23.95	24.85	24.77	23.60	22.41	21.97	22.52	24.35	25.99
1893.	34.99	31.23	31.71	32.83	29.17	27.90	24.95	23.53	23.22	22.20	21.84	28.02	27.63
1894.	36.24	32.33	31.44	29.33	27.42	25.95	24.56	22.35	21.49	21.04	22.35	22.65	26.75
1895.	34.14	30.06	28.55	31.21	25.86	23.98	21.37	20.75	20.00	19.23	19.35	26.48	25.08
1896.	33.18	33.08	31.46	31.79	25.95	23.51	21.83	20.95	20.15	20.19	21.41	25.47	26.00
1897.	32.75	29.22	29.11	29.55	27.59	25.18	23.00	22.19	21.00	19.86	20.22	23.09	25.24
1898.	35.01	32.53	35.47	25.47	24.39	24.07	22.92	21.54	21.00	21.24	21.90	25.63	25.93
1899.	35.74	31.52	32.10	34.00	28.00	24.95	23.13	21.48	20.36	20.81	20.02	20.97	26.14
1900.	32.52	33.24	32.20	33.65	25.95	23.84	23.42	22.47	21.25	21.21	21.74	26.70	26.52
1901.	32.77	30.95	29.97	33.95	26.25	24.31	22.25	21.07	20.21	19.73	19.43	26.46	25.61
1902.	32.63	29.06	34.43	26.10	25.14	24.53	22.79	21.89	20.69	20.52	21.33	29.47	25.72
1903.	35.28	32.21	36.54	26.10	24.51	23.59	23.36	22.28	21.39	21.70	20.44	27.92	25.72
1904.	33.97	31.44	32.75	36.80	28.46	27.26	21.07	22.59	23.80	25.04	23.88	29.61	28.31
1905.	32.37	30.62	31.71	30.69	23.99	23.21	22.36	21.74	21.39	21.02	20.91	24.44	25.37
1906.	33.56	35.26	32.42	27.29	24.62	24.27	22.14	20.61	19.76	19.69	19.86	30.34	25.82
1907.	31.26	30.99	32.62	32.73	25.61	24.71	23.15	21.57	20.96	21.46	22.15	21.98	25.77
1908.	30.63	33.78	33.75	35.93	30.09	27.04	23.59	22.11	20.95	20.02	19.50	25.62	26.92
1909.	32.56	30.54	30.67	32.80	28.95	26.37	22.89	22.27	21.34	20.86	20.21	21.29	25.89
1910.	32.50	29.09	31.53	24.64	24.07	23.18	20.99	20.33	20.03	20.02	19.95	27.56	24.49
1911.	30.69	28.29	28.81	31.64	24.61	22.94	20.49	19.42	18.73	18.20	18.32	19.70	23.49
1912.	33.57	31.73	30.18	33.84	25.74	25.89	21.97	20.95	20.71	20.71	22.81	22.44	25.88
1913.	29.86	36.90	35.96	30.89	25.67	23.21	21.62	20.77	20.33	20.52	21.18	21.11	25.57
1914.	32.99	31.73	29.99	30.61	23.31	21.41	20.86	19.81	19.45	18.82	18.85	24.49	24.30
Means	34.36	33.15	33.09	32.26	27.60	25.87	24.02	22.91	22.21	22.08	22.25	26.50	27.18

TABLE ONTARIO AT TORONTO, CAN.

Monthly means of water levels above mean tide at New York, depending on gauge zero 245.00, sea level elevation in feet, U.S. Survey adjustment of 1.03.

Year	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Mean
1854..	246.67	246.75	246.83	247.00	247.54	247.96	247.83	247.25	246.83	246.42	245.87	245.75	246.89
1855..	246.67	245.83	245.42	245.50	246.33	246.67	247.21	247.33	247.17	247.04	246.87	246.92	246.49
1856..	246.67	246.50	246.42	246.67	247.42	247.58	247.56	247.90	246.75	246.51	245.87	245.58	246.77
1857..	245.33	245.42	245.96	246.46	247.10	248.00	248.50	248.12	247.23	247.75	247.75	248.00	247.28
1858..	247.58	247.50	247.00	247.33	247.54	248.22	248.54	248.37	247.92	247.42	247.08	246.75	247.61
1859..	246.75	246.70	246.92	247.83	248.40	248.46	248.25	247.55	246.50	246.25	246.25	246.25	246.52
1860..	246.42	246.42	246.33	246.12	246.67	246.87	246.92	246.87	247.35	247.15	247.45	247.21	247.27
1861..	246.12	246.07	246.55	247.15	247.87	248.11	248.03	247.80	247.35	247.15	246.31	246.00	247.21
1862..	246.77	246.53	246.67	247.53	248.41	248.32	248.11	247.74	247.26	246.55	245.95	245.95	246.71
1863..	246.11	246.10	246.16	247.17	247.77	247.73	247.48	247.07	246.41	246.07	246.18	246.31	246.52
1864..	245.69	245.72	245.81	246.30	247.44	247.76	247.20	246.92	246.41	246.05	245.56	245.40	246.24
1865..	246.11	245.76	246.08	246.88	247.29	247.22	246.84	246.40	246.10	245.89	245.32	244.88	246.63
1866..	244.94	244.60	244.88	245.45	245.98	246.41	246.50	246.33	246.10	245.89	245.32	244.88	246.63
1867..	246.37	246.37	246.51	246.80	247.71	248.10	247.81	247.20	246.40	245.75	245.21	245.10	246.53
1868..	244.70	244.32	244.32	245.31	245.71	246.02	246.13	245.71	245.40	245.26	245.21	245.10	246.40
1869..	245.07	245.00	245.25	246.01	246.72	246.92	247.15	247.10	246.70	246.38	245.90	245.43	247.43
1870..	247.03	247.13	247.00	248.00	248.81	248.71	248.11	247.71	247.20	246.78	246.30	246.13	247.43
1871..	245.86	245.70	246.01	246.58	246.91	246.70	246.63	246.30	245.90	245.57	245.09	244.64	245.98
1872..	244.17	244.26	244.28	245.82	246.72	246.73	246.08	245.57	246.00	245.70	245.52	245.68	246.16
1873..	244.11	244.10	244.10	245.00	245.81	246.72	246.72	246.01	246.34	245.78	245.28	244.93	246.16
1874..	246.18	246.61	246.91	247.03	247.13	247.25	247.10	246.91	246.77	246.60	246.45	246.30	246.20
1875..	244.63	244.26	244.56	245.23	245.60	245.85	245.87	245.75	245.44	245.19	244.98	244.70	245.98
1876..	245.24	245.88	246.49	247.32	247.90	248.20	248.20	247.77	247.26	246.78	246.50	246.12	246.84
1877..	245.72	245.47	245.60	246.20	246.40	246.32	246.30	246.06	245.67	245.34	245.05	244.76	246.32
1878..	245.35	245.51	246.07	246.51	246.82	246.86	246.72	246.40	246.11	245.95	245.70	245.51	246.32
1879..	246.46	246.20	246.17	246.50	246.72	246.62	246.33	246.00	245.77	245.55	245.31	245.10	246.32
1880..	245.13	245.41	245.79	246.57	246.72	246.52	246.33	246.01	245.78	245.55	245.31	245.10	246.32
1881..	244.56	244.73	245.24	245.62	245.95	246.15	246.08	245.81	245.63	245.45	245.26	244.98	246.32
1882..	245.30	245.60	246.20	246.50	246.77	247.30	247.25	246.98	246.71	246.41	246.17	245.93	246.32
1883..	245.30	245.12	245.30	245.90	246.77	247.45	247.80	247.00	246.71	246.41	246.17	245.93	246.32
1884..	246.29	246.5	247.16	247.00	248.13	248.06	247.82	247.60	247.25	246.91	246.53	246.17	247.14
1885..	245.95	245.8	245.56	246.10	247.00	247.80	247.55	247.46	247.25	246.91	246.53	246.17	247.14
1886..	247.56	247.3	247.57	248.37	248.63	248.38	248.00	247.55	247.14	246.79	246.46	246.17	247.57
1887..	246.29	246.72	247.23	247.90	248.10	248.12	247.88	247.35	246.69	246.26	245.81	245.68	246.58

Year	1888	1889	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	Mean, 1851 to 1914
245-43	245-29	245-61	246-01	246-18	246-05	246-26	246-28	246-27	246-11	245-88	245-54	245-43	245-29	245-77	245-48	245-65	246-16	246-30	246-17	246-00	245-82	245-64	245-36	245-19	245-02	244-85	244-68	244-51
245-48	245-65	246-01	246-18	246-05	246-26	246-28	246-27	246-11	245-88	245-54	245-43	245-29	245-77	245-48	245-65	246-16	246-30	246-17	246-00	245-82	245-64	245-36	245-19	245-02	244-85	244-68	244-51	244-34
246-11	246-16	246-30	246-17	246-00	245-82	245-64	245-36	245-19	245-02	244-85	244-68	244-51	244-34	244-17	244-00	243-83	243-66	243-49	243-32	243-15	242-98	242-81	242-64	242-47	242-30	242-13	241-96	241-79
246-01	246-16	246-30	246-17	246-00	245-82	245-64	245-36	245-19	245-02	244-85	244-68	244-51	244-34	244-17	244-00	243-83	243-66	243-49	243-32	243-15	242-98	242-81	242-64	242-47	242-30	242-13	241-96	241-79
244-27	244-22	244-25	244-73	245-08	245-61	246-17	246-87	246-33	245-60	244-86	244-12	243-38	242-64	241-90	241-16	240-42	239-68	238-94	238-20	237-46	236-72	235-98	235-24	234-50	233-76	233-02	232-28	231-54
244-62	244-53	244-91	245-60	246-74	247-16	247-87	248-31	248-81	249-31	249-81	250-31	250-81	251-31	251-81	252-31	252-81	253-31	253-81	254-31	254-81	255-31	255-81	256-31	256-81	257-31	257-81	258-31	258-81
245-36	245-46	245-73	245-85	246-05	246-48	247-16	248-03	249-00	249-97	250-94	251-91	252-88	253-85	254-82	255-79	256-76	257-73	258-70	259-67	260-64	261-61	262-58	263-55	264-52	265-49	266-46	267-43	268-40
244-19	243-91	243-98	244-50	244-73	245-15	245-10	244-84	244-61	244-38	244-15	243-92	243-69	243-46	243-23	243-00	242-77	242-54	242-31	242-08	241-85	241-62	241-39	241-16	240-93	240-70	240-47	240-24	240-01
243-53	243-70	243-84	244-85	245-15	245-10	244-84	244-61	244-38	244-15	243-92	243-69	243-46	243-23	243-00	242-77	242-54	242-31	242-08	241-85	241-62	241-39	241-16	240-93	240-70	240-47	240-24	240-01	239-78
243-51	243-57	244-02	244-75	245-31	245-48	245-51	245-48	245-45	245-42	245-39	245-36	245-33	245-30	245-27	245-24	245-21	245-18	245-15	245-12	245-09	245-06	245-03	245-00	244-97	244-94	244-91	244-88	244-85
244-51	244-93	245-31	245-60	245-94	246-33	246-72	247-11	247-50	247-89	248-28	248-67	249-06	249-45	249-84	250-23	250-62	251-01	251-40	251-79	252-18	252-57	252-96	253-35	253-74	254-13	254-52	254-91	255-30
244-37	244-89	245-05	245-62	246-06	246-50	247-00	247-44	247-88	248-32	248-76	249-20	249-64	250-08	250-52	250-96	251-40	251-84	252-28	252-72	253-16	253-60	254-04	254-48	254-92	255-36	255-80	256-24	256-68
244-37	244-63	245-00	245-57	246-02	246-46	246-90	247-34	247-78	248-22	248-66	249-10	249-54	249-98	250-42	250-86	251-30	251-74	252-18	252-62	253-06	253-50	253-94	254-38	254-82	255-26	255-70	256-14	256-58
244-57	244-32	244-28	245-31	245-79	246-38	246-97	247-56	248-15	248-74	249-33	249-92	250-51	251-10	251-69	252-28	252-87	253-46	254-05	254-64	255-23	255-82	256-41	257-00	257-59	258-18	258-77	259-36	259-95
244-39	244-32	244-94	245-38	246-46	247-50	248-54	249-58	250-62	251-66	252-70	253-74	254-78	255-82	256-86	257-90	258-94	259-98	260-02	261-06	262-10	263-14	264-18	265-22	266-26	267-30	268-34	269-38	270-42
241-68	241-87	245-42	246-69	247-43	248-70	249-47	250-24	251-01	251-78	252-55	253-32	254-09	254-86	255-63	256-40	257-17	257-94	258-71	259-48	260-25	261-02	261-79	262-56	263-33	264-10	264-87	265-64	266-41
245-63	245-19	245-12	246-09	247-43	248-70	249-47	250-24	251-01	251-78	252-55	253-32	254-09	254-86	255-63	256-40	257-17	257-94	258-71	259-48	260-25	261-02	261-79	262-56	263-33	264-10	264-87	265-64	266-41
246-18	246-17	246-00	246-20	246-35	246-44	246-61	246-70	246-79	246-88	246-97	247-06	247-15	247-24	247-33	247-42	247-51	247-60	247-69	247-78	247-87	247-96	248-05	248-14	248-23	248-32	248-41	248-50	248-59
246-19	246-38	246-37	246-75	246-99	247-05	247-09	247-13	247-17	247-21	247-25	247-29	247-33	247-37	247-41	247-45	247-49	247-53	247-57	247-61	247-65	247-69	247-73	247-77	247-81	247-85	247-89	247-93	247-97
246-50	246-82	247-24	247-89	248-51	249-08	249-65	250-22	250-79	251-36	251-93	252-50	253-07	253-64	254-21	254-78	255-35	255-92	256-49	257-06	257-63	258-20	258-77	259-34	259-91	260-48	261-05	261-62	262-19
245-19	245-36	245-64	245-97	246-38	246-49	246-59	246-69	246-79	246-89	246-99	247-09	247-19	247-29	247-39	247-49	247-59	247-69	247-79	247-89	247-99	248-09	248-19	248-29	248-39	248-49	248-59	248-69	248-79
244-41	244-73	244-88	245-10	245-40	245-55	245-58	245-61	245-64	245-67	245-70	245-73	245-76	245-79	245-82	245-85	245-88	245-91	245-94	245-97	246-00	246-03	246-06	246-09	246-12	246-15	246-18	246-21	246-24
245-16	245-26	245-28	245-59	246-66	247-17	247-68	248-18	248-68	249-18	249-68	250-18	250-68	251-18	251-68	252-18	252-68	253-18	253-68	254-18	254-68	255-18	255-68	256-18	256-68	257-18	257-68	258-18	258-68
246-38	246-72	246-78	247-84	248-17	248-18	248-19	248-20	248-21	248-22	248-23	248-24	248-25	248-26	248-27	248-28	248-29	248-30	248-31	248-32	248-33	248-34	248-35	248-36	248-37	248-38	248-39	248-40	248-41
245-82	245-75	245-49	246-39	246-82	246-83	246-84	246-85	246-86	246-87	246-88	246-89	246-90	246-91	246-92	246-93	246-94	246-95	246-96	246-97	246-98	246-99	247-00	247-01	247-02	247-03	247-04	247-05	247-06

Gauge readings at Toronto for the period 1851 to 1910 were supplied by Mr. C. W. Postlethwaite, Harbour Master, for 1910 to 1914, by Mr. Norman W. Wilson, C.E.

Mr. Wilson has contributed a memorandum relating to Toronto gauge, which has been incorporated in the Introduction, and to which all interested in the subject of levels of Lake Ontario are referred.

LAKE ONTARIO AT OSWEGO, N. Y.

Monthly means of water levels above mean tide at New York depending on gauge zero 244.15 and B. M. A. 251.00, sea level elevations in feet; U. S. 1 the Survey adjustment of 1905.

Year	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Mean
1860	216.61	246.75	246.86	246.83	247.00	247.60	247.75	247.29	246.86	246.76	246.75	246.76	246.79
1861	246.47	249.55	247.05	247.26	248.21	248.55	248.32	248.10	247.60	247.84	247.55	247.64	247.63
1862	247.11	246.72	247.21	248.11	248.91	248.65	248.75	248.77	247.61	247.15	246.71	246.65	247.66
1863	246.80	246.80	246.99	247.66	248.06	248.21	247.80	247.34	246.96	246.77	246.50	246.60	247.22
1864	246.30	246.20	246.29	246.80	247.88	248.12	247.88	247.37	246.87	246.61	246.58	246.68	246.97
1865	247.11	247.26	247.31	247.44	247.63	247.66	247.81	247.51	246.93	246.82	246.85	246.69	246.92
1866	245.49	245.50	245.51	245.66	246.03	245.95	246.87	246.75	246.68	246.55	246.31	246.25	246.16
1867	244.55	244.61	244.61	244.75	245.55	246.15	246.57	246.16	245.91	245.38	245.62	244.80	245.87
1868	245.25	245.35	245.59	246.12	246.78	247.06	247.32	247.38	247.26	247.11	246.71	246.88	246.86
1869	247.29	247.44	247.41	248.38	248.98	248.66	248.35	248.09	247.51	246.98	246.41	246.16	247.62
1870	246.09	248.92	246.12	246.76	247.15	247.09	246.90	246.40	246.15	245.65	245.24	244.90	246.21
1871	244.76	244.55	244.55	244.57	244.99	245.91	245.32	245.22	244.93	244.75	244.72	244.55	244.85
1872	244.76	244.41	244.61	245.44	245.75	245.10	244.90	246.61	246.15	245.76	245.65	245.82	245.87
1873	246.55	246.77	247.32	247.23	247.20	247.81	247.28	247.00	246.37	245.96	245.43	245.00	246.61
1874	245.91	245.60	245.81	246.49	246.57	246.45	246.45	246.05	245.90	245.88	245.15	244.92	245.30
1875	245.31	246.00	245.61	245.41	245.75	245.10	244.90	245.75	245.75	245.75	245.65	245.82	245.87
1876	245.91	245.60	245.81	246.49	246.57	246.45	246.45	246.05	245.90	245.88	245.15	244.92	245.30
1877	245.31	246.00	245.61	245.41	245.75	245.10	244.90	245.75	245.75	245.75	245.65	245.82	245.87
1878	246.85	246.15	246.30	246.73	246.88	246.81	246.70	246.61	246.61	246.61	246.61	246.61	246.61
1879	245.31	246.00	245.61	245.41	245.75	245.10	244.90	245.75	245.75	245.75	245.65	245.82	245.87
1880	245.91	245.60	245.81	246.49	246.57	246.45	246.45	246.05	245.90	245.88	245.15	244.92	245.30
1881	245.31	246.00	245.61	245.41	245.75	245.10	244.90	245.75	245.75	245.75	245.65	245.82	245.87
1882	246.85	246.15	246.30	246.73	246.88	246.81	246.70	246.61	246.61	246.61	246.61	246.61	246.61
1883	245.31	246.00	245.61	245.41	245.75	245.10	244.90	245.75	245.75	245.75	245.65	245.82	245.87
1884	245.91	245.60	245.81	246.49	246.57	246.45	246.45	246.05	245.90	245.88	245.15	244.92	245.30
1885	245.31	246.00	245.61	245.41	245.75	245.10	244.90	245.75	245.75	245.75	245.65	245.82	245.87
1886	246.85	246.15	246.30	246.73	246.88	246.81	246.70	246.61	246.61	246.61	246.61	246.61	246.61
1887	245.31	246.00	245.61	245.41	245.75	245.10	244.90	245.75	245.75	245.75	245.65	245.82	245.87
1888	245.91	245.60	245.81	246.49	246.57	246.45	246.45	246.05	245.90	245.88	245.15	244.92	245.30
1889	245.31	246.00	245.61	245.41	245.75	245.10	244.90	245.75	245.75	245.75	245.65	245.82	245.87
1890	246.85	246.15	246.30	246.73	246.88	246.81	246.70	246.61	246.61	246.61	246.61	246.61	246.61
1891	245.31	246.00	245.61	245.41	245.75	245.10	244.90	245.75	245.75	245.75	245.65	245.82	245.87
1892	245.91	245.60	245.81	246.49	246.57	246.45	246.45	246.05	245.90	245.88	245.15	244.92	245.30
1893	245.31	246.00	245.61	245.41	245.75	245.10	244.90	245.75	245.75	245.75	245.65	245.82	245.87

LAKE ERIE AT CLEVELAND, OHIO

Monthly mean of water levels above mean tide at New York, depending on B.M.I. 561.41, sea level elevation in feet; U.S. Lake Survey level adjustment of 1903.

Year	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Mean
1860.	573.26	572.90	573.30	574.00	574.21	574.18	573.92	573.76	573.42	573.12	573.03	572.87	573.50
1861.	572.61	572.33	572.77	573.81	574.24	574.31	574.06	574.10	573.92	573.69	573.67	573.44	573.58
1862.	573.43	573.14	573.28	574.18	574.42	574.42	574.39	574.01	573.70	573.32	572.98	573.01	573.69
1863.	573.46	573.75	573.69	573.81	573.99	573.85	573.73	573.65	573.26	572.82	572.41	572.38	573.40
1864.	572.09	572.24	572.45	572.95	573.65	573.60	573.34	573.07	572.85	572.44	572.19	572.05	572.80
1865.	572.01	571.43	571.75	572.47	573.05	573.03	572.99	572.91	572.87	572.57	572.19	572.05	572.44
1866.	571.78	571.62	572.01	572.59	572.81	573.07	573.18	572.93	572.87	572.86	572.62	572.63	572.58
1867.	572.34	572.02	572.42	572.74	573.26	573.57	573.38	573.07	572.68	572.34	571.84	571.62	572.61
1868.	571.42	571.04	571.63	572.46	572.91	573.30	573.58	573.48	573.21	572.76	572.30	572.65	572.65
1869.	571.65	571.58	572.06	572.36	572.91	573.75	573.72	573.71	573.46	573.08	572.78	572.66	573.28
1870.	572.89	573.12	572.89	573.54	573.32	573.35	573.33	573.12	572.95	572.28	572.10	571.66	572.69
1871.	572.45	572.12	572.57	573.05	573.32	573.35	573.25	573.22	571.99	571.82	571.49	571.26	571.73
1872.	571.58	571.34	571.25	571.45	571.89	572.26	573.25	573.19	572.79	572.49	572.29	572.66	572.44
1873.	571.16	571.17	571.24	572.52	573.19	573.27	573.25	573.19	572.87	572.43	572.01	571.80	572.95
1874.	573.05	573.13	573.13	573.30	573.39	573.46	573.49	573.33	572.82	572.33	572.18	572.40	572.28
1875.	571.57	571.40	571.54	571.94	572.41	572.84	572.97	572.96	572.82	572.33	572.01	571.80	572.28
1876.	572.36	572.92	573.57	574.09	574.41	574.52	574.41	574.11	573.94	573.41	573.49	573.15	573.70
1877.	572.75	572.59	572.36	572.79	573.04	573.12	573.36	573.22	573.14	572.74	572.66	572.74	572.88
1878.	572.82	572.96	573.09	573.51	573.77	573.77	573.77	573.53	573.40	573.05	572.85	572.93	573.29
1879.	572.51	572.37	572.40	572.76	572.91	573.00	573.03	572.81	572.48	572.25	571.78	572.04	572.53
1880.	572.54	572.58	572.72	572.88	573.15	573.26	573.35	573.11	572.88	572.44	*572.36	*572.02	572.77
1881.	*571.61	*571.72	*572.04	572.74	573.14	573.38	573.33	573.01	572.66	572.61	572.43	572.64	572.61
1882.	573.11	573.11	573.56	573.78	573.98	574.13	574.06	573.92	573.65	573.20	572.88	572.37	573.48
1883.	572.28	572.49	572.68	572.80	573.26	573.96	574.16	574.10	573.79	573.47	573.09	573.12	573.27
1884.	572.79	573.05	573.24	573.79	574.06	574.14	573.92	573.76	573.33	573.00	572.52	572.45	573.34
1885.	572.27	572.06	571.92	572.74	573.37	573.91	573.98	573.94	573.80	573.70	573.58	573.53	573.24
1886.	573.55	572.82	572.63	573.51	573.81	573.91	573.89	573.68	573.44	573.21	572.80	572.85	573.34
1887.	572.62	573.04	573.85	573.87	574.05	574.08	573.84	573.52	573.29	572.70	572.43	572.45	573.31
1888.	572.31	572.15	571.99	572.73	572.98	573.11	573.26	573.16	572.72	572.35	572.41	572.29	572.61
1889.	572.31	572.05	571.99	572.73	572.98	573.11	573.26	573.16	572.72	572.35	572.41	572.29	572.61
1890.	572.38	572.67	572.79	573.28	573.62	573.99	573.61	573.17	572.98	572.79	572.76	572.53	573.05
1891.	572.31	572.29	572.75	572.62	572.44	572.58	572.48	572.31	572.03	571.65	571.21	571.28	572.15
1892.	571.31	571.10	571.14	571.70	572.50	573.26	573.38	573.03	572.71	572.15	571.82	571.55	572.14
1893.	571.17	571.25	571.47	572.20	573.04	573.23	572.95	572.61	572.23	571.88	571.48	571.56	572.09

WATER LEVELS OF THE ST. LAWRENCE AND GREAT LAKES

575

1894	571-84	571-72	571-75	572-15	572-54	572-85	572-73	572-36	572-19	571-87	571-63	571-56	572-10
1895	571-23	571-00	571-01	571-26	571-48	571-57	571-46	571-38	571-28	570-80	570-70	570-86	571-17
1896	570-96	570-88	570-83	571-28	571-66	571-93	571-81	572-02	571-70	571-46	571-09	571-12	571-39
1897	571-09	571-29	571-66	572-21	572-54	572-64	572-63	572-47	572-19	571-70	571-57	571-54	571-96
1898	571-59	571-79	572-05	572-63	572-78	572-81	572-59	572-39	572-01	571-81	571-69	571-52	572-14
1899	571-67	571-46	571-83	572-13	572-44	572-56	572-46	572-21	571-85	571-61	571-62	571-34	571-93
1900	571-36	571-57	571-92	572-23	572-39	572-47	572-34	572-31	571-99	571-75	571-49	571-45	571-94
1901	571-35	571-00	570-88	571-29	571-31	571-72	571-91	571-78	571-71	571-33	571-16	571-19	571-39
1902	571-08	570-63	570-94	571-49	571-86	572-12	572-74	572-72	572-38	572-29	572-02	571-82	571-84
1903	571-72	571-70	572-28	573-05	573-09	573-05	572-98	572-76	572-59	572-25	571-77	571-43	572-39
1904†	571-32	571-42	572-01	573-13	573-33	573-52	573-41	573-10	572-84	572-49	572-12	571-77	572-54
1905†	571-52	571-31	571-18	571-83	572-46	572-98	573-06	572-63	572-35	572-21	571-93	571-91	572-17
1906†	571-94	571-93	571-71	572-13	572-40	572-60	572-64	572-63	572-35	572-21	572-17	572-42	572-26
1907†	572-76	572-46	572-24	572-71	572-88	573-27	573-31	573-03	572-77	572-69	572-41	572-26	572-73
1908†	572-57	572-19	572-66	573-27	573-51	573-51	573-32	573-14	572-68	572-31	571-71	571-42	572-69
1909†	571-48	571-46	571-78	572-08	572-90	573-20	573-00	572-80	572-36	571-76	571-61	571-39	572-15
1910†	571-25	571-16	571-66	572-08	572-57	572-61	572-40	572-22	572-02	571-88	571-46	571-34	571-87
1911†	571-04	571-09	571-08	571-61	571-88	571-94	571-75	571-61	571-52	571-53	571-42	571-47	572-02
1912†	571-28	571-08	571-23	572-28	572-59	572-66	572-56	572-49	572-50	572-15	571-92	571-55	572-02
1913†	572-23	572-41	572-35	574-03	573-98	573-86	573-57	573-24	572-75	572-43	572-27	572-14	572-95
1914†	572-01	571-71	571-48	572-18	572-90	573-03	572-83	572-59	572-37	572-10	571-44	571-31	572-16
Means, 1860 to 1914	572-05	571-97	572-16	572-69	573-03	573-21	573-17	572-98	572-71	572-39	572-13	572-06	572-55

* Readings interpolated by applying average difference of readings for year to monthly means at Erie, Pa.
† From automatic gauge records.

NOTE.—The Cleveland gauge has been frequently inspected and the water levels are considered reliable.

LAKE HURON AT HARBOR BEACH, MICH.

Monthly means of water levels above mean tide at New York, depending on B. M. "Jenks," 610.56 and gauge bolt "E," 583.21, sea level elevations in feet; U. S. Lake Survey level adjustment of 1903.

Year	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Mean
1874.....	581.16	581.10	581.14	581.33	581.68	581.99	582.18	582.15	582.11	581.84	581.30	581.45	581.70
1875.....	581.74	581.72	581.85	582.13	582.73	583.22	583.66	583.60	583.49	583.09	581.89	581.62	581.74
1876.....	582.46	582.45	582.38	582.46	582.63	582.59	582.77	582.67	582.40	582.26	582.21	582.16	582.45
1877.....	582.06	581.89	582.06	581.99	582.39	582.56	582.60	582.50	582.21	582.22	582.03	581.83	582.20
1878.....	581.53	581.29	581.25	581.28	581.41	581.55	581.59	581.46	581.38	581.14	581.02	581.00	581.32
1879.....	581.05	580.99	580.98	580.99	581.39	581.88	582.19	582.08	581.97	581.61	581.49	581.29	581.49
1880.....	581.16	581.55	581.56	581.58	581.90	582.07	582.22	582.05	581.89	582.14	582.27	582.10	581.87
1881.....	581.95	581.72	581.86	581.08	582.25	582.48	582.62	582.68	582.56	582.33	582.08	581.93	582.21
1882.....	581.73	581.68	581.72	581.73	582.30	582.72	583.20	583.40	583.08	582.75	582.86	582.75	582.49
1883.....	582.56	582.41	582.45	582.76	582.98	583.04	583.12	583.00	582.65	582.81	582.46	582.20	582.70
1884.....	582.47	582.38	582.38	582.49	582.89	583.18	583.24	583.39	583.29	583.06	582.87	582.67	582.86
1885.....	582.67	582.74	582.93	583.22	583.55	583.64	583.48	583.33	583.15	583.02	582.75	582.43	583.08
1886.....	582.26	582.45	582.66	582.57	582.77	582.89	582.97	582.76	582.41	582.19	581.74	581.45	582.43
1887.....	581.34	581.25	581.42	581.56	582.00	582.30	582.33	582.37	582.08	581.78	581.60	581.39	581.78
1888.....	581.25	581.17	581.15	581.08	581.22	581.55	581.81	581.75	581.58	581.21	580.87	580.71	581.28
1889.....	580.78	580.66	580.64	580.78	581.09	581.52	581.71	581.44	581.23	581.03	580.73	580.54	581.11
1890.....	580.53	580.42	580.39	580.72	580.96	580.91	580.96	581.04	580.87	580.66	580.33	580.09	580.38
1891.....	579.93	579.87	579.93	580.05	580.14	580.67	580.96	581.21	581.35	581.20	580.77	580.58	580.57
1892.....	579.84	579.79	579.87	580.25	580.88	581.21	581.35	581.21	581.01	580.77	580.58	580.28	580.76
1893.....	580.23	580.24	580.39	580.62	581.02	581.32	581.47	580.07	579.94	579.65	579.26	579.02	579.83
1894.....	579.96	579.84	579.85	579.95	580.12	580.19	580.16	580.07	579.83	579.63	579.49	579.38	579.53
1895.....	579.09	579.21	579.11	579.14	579.54	579.91	579.97	580.01	579.83	579.63	580.07	579.81	580.13
1896.....	579.45	579.36	579.47	579.84	580.41	580.65	580.83	580.84	580.58	580.23	580.07	579.94	580.28
1897.....	579.66	579.72	579.95	580.44	580.56	580.72	580.82	580.99	580.52	580.21	580.13	579.94	580.28
1898.....	579.68	579.54	579.66	579.86	580.40	580.79	581.08	580.99	580.79	580.38	580.24	580.05	580.29
1899.....	579.82	579.83	579.86	579.98	580.13	580.30	580.55	580.64	580.72	580.66	580.66	580.46	580.30
1900.....	580.22	580.08	580.07	*580.55	580.81	580.91	581.06	581.11	580.88	580.65	580.43	580.10	580.57
1901.....	580.00	579.81	579.73	579.91	580.16	580.48	580.76	580.83	580.51	580.27	579.93	580.21	580.36
1902.....	579.74	579.78	579.92	580.27	580.39	580.56	580.75	580.73	580.80	580.83	580.41	580.12	580.36
1903.....	579.91	579.91	580.08	580.63	580.96	581.42	581.55	581.53	581.36	581.26	580.95	580.50	580.84
1904.....	580.38	580.30	580.29	580.66	580.95	581.10	581.57	581.56	581.45	581.22	580.93	580.67	580.95
1905.....	580.53	580.69	580.76	580.94	581.20	581.33	581.45	581.36	581.12	580.87	580.68	580.65	580.96
1906.....	580.65	580.68	580.68	580.90	581.08	581.39	581.64	581.49	581.42	581.21	580.83	580.62	581.05
1907.....	580.65	580.68	580.68	580.90	581.08	581.39	581.64	581.49	581.42	581.21	580.83	580.62	581.05

1908	580-52	580-43	580-58	580-85	581-26	581-60	581-76	581-67	581-27	580-86	580-46	580-23	580-96
1909	579-90	579-92	580-03	580-14	580-76	581-07	581-13	581-02	580-80	580-40	580-12	580-08	580-45
1910	579-99	579-98	579-99	580-10	580-40	580-54	580-42	580-33	580-20	580-08	579-83	579-52	580-12
1911	579-38	579-35	579-35	579-37	579-66	579-98	579-93	579-85	579-56	579-56	579-44	579-39	579-57
1912	579-35	579-23	579-22	579-44	579-89	580-45	580-41	580-54	580-54	580-54	580-43	580-28	580-04
1913	580-13	580-06	580-08	580-73	580-99	581-14	581-29	581-18	580-70	580-50	580-38	580-67	580-67
1914	580-08	580-11	579-98	580-02	580-29	580-56	580-74	580-64	580-28	579-92	579-67	580-23	580-23
Means, 1875 to 1914	580-67	580-64	580-69	580-88	581-20	581-46	581-61	581-55	581-37	581-16	580-96	580-75	581-08

From records of automatic gauge after April, 1901.

NOTE.—By Lake Survey levels run in March, 1901, it was found that water levels as being reported from this station were 0.07 ft. too high from the adopted elevations of the reference bench marks. This error was first dropped from the published mean of May, 1901. The original gauge, established by Asst. Engr. Gilbert and used until 1884, was probably correct, this error being introduced by the frequent transfer to new gauges subsequently set by the gauge observers.

This table, to Jan., 1892, is reduced from Chief of Engineers reports; from Jan., 1892, to date, from records in the U.S. Lake Survey office. A correction of 0.07 ft. has been made to the reported monthly mean after Jan. 1, 1895.

There is a lack of data to show definitely when this error was first introduced, the above date being selected arbitrarily, suggested by a comparison with Milwaukee records.

LAKE MICHIGAN AT MILWAUKEE, WIS.

Monthly means of water levels above mean tide at New York, depending on check point (18'6) on Chestnut St. bridge (destroyed) as 586.55, and check point (1902) on same bridge as 584.47, sea level elevations in feet; U. S. Lake Survey level adjustment of 1903.

Year	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Mean
1860.	582.51	582.69	582.72	582.85	582.97	583.09	583.13	582.94	582.74	582.43	582.10	581.94	582.68
1861.	581.83	581.92	582.31	582.41	582.83	582.99	583.12	583.36	583.05	582.93	582.70	582.53	582.66
1862.	582.33	582.18	582.48	582.64	582.89	583.02	582.92	582.91	582.84	582.73	582.44	582.20	582.62
1863.	582.13	582.17	582.17	582.17	582.38	582.47	582.42	582.29	582.11	582.02	581.58	581.92	582.15
1864.	581.69	581.55	581.80	581.51	582.02	582.01	581.91	581.73	581.46	581.07	580.90	580.77	581.53
1865.	580.56	580.65	580.82	581.31	581.47	581.51	581.94	581.96	581.84	581.60	581.04	580.73	581.29
1866.	580.47	580.23	580.28	580.73	580.91	581.20	581.46	581.52	581.37	581.26	581.17	580.91	580.96
1867.	580.89	580.94	581.12	581.41	581.63	581.94	582.09	582.02	581.75	581.42	580.96	580.61	581.40
1868.	580.45	580.41	581.09	580.99	581.27	581.48	581.51	581.17	580.93	580.70	580.63	580.35	580.91
1869.	580.25	580.32	580.06	580.43	580.76	581.29	582.41	582.52	582.43	582.57	581.12	581.34	581.03
1870.	581.12	581.21	581.51	581.93	582.27	582.41	582.52	582.48	581.81	581.94	580.82	580.53	581.87
1871.	581.57	581.49	582.09	582.29	582.64	582.68	582.71	582.48	581.01	580.94	580.82	580.53	581.24
1872.	580.35	580.35	580.13	580.38	580.63	581.00	581.03	581.01	581.85	581.79	581.56	581.52	581.73
1873.	579.87	579.91	580.22	580.79	581.35	581.98	581.94	582.06	581.99	581.86	581.51	581.44	581.48
1874.	581.48	581.77	581.92	581.82	581.80	581.82	581.80	582.06	581.88	581.84	581.63	581.44	581.48
1875.	580.77	580.70	580.76	581.12	581.68	581.92	581.89	582.42	583.37	582.79	582.89	582.42	582.61
1876.	581.39	581.59	581.92	582.12	582.74	583.15	583.49	583.42	583.27	582.28	582.16	582.16	582.38
1877.	582.28	582.29	582.29	582.67	582.56	582.63	582.60	582.48	582.27	582.02	581.91	581.78	582.07
1878.	581.98	581.91	582.07	582.09	582.39	582.53	582.54	582.22	582.02	581.91	581.78	581.46	582.07
1879.	581.15	581.16	581.20	581.19	581.32	581.39	581.48	581.29	581.17	580.95	580.73	580.76	581.15
1880.	580.80	580.71	580.75	580.92	581.26	581.77	581.99	582.02	581.72	581.38	581.06	580.89	581.27
1881.	580.90	581.11	581.40	581.31	581.82	582.05	582.02	582.02	581.79	582.12	581.95	581.85	581.70
1882.	581.63	581.62	581.90	582.12	582.22	582.49	582.62	582.81	582.69	582.28	582.07	581.74	582.19
1883.	582.07	582.19	582.44	582.62	582.83	582.99	583.26	583.23	583.04	582.82	582.44	582.05	582.47
1884.	582.06	582.29	582.25	582.44	582.80	583.01	583.10	583.31	583.17	583.03	582.73	582.44	582.72
1885.	582.67	582.69	582.97	583.24	583.50	583.57	583.38	583.15	582.91	582.81	582.47	582.14	582.96
1886.	582.06	582.43	582.59	582.74	582.87	582.87	582.87	582.67	582.33	581.88	581.55	581.43	582.32
1887.	581.25	581.20	581.38	581.59	581.97	582.24	582.25	582.13	581.98	581.73	581.68	581.10	581.71
1888.	581.08	581.05	581.03	581.04	581.12	581.58	581.76	581.52	581.35	581.10	580.75	580.57	581.16
1889.	580.65	580.61	580.59	580.91	581.14	581.55	581.62	581.54	581.34	581.23	580.89	580.54	581.05
1890.	580.52	580.28	580.47	580.78	580.88	581.03	580.86	580.79	580.56	580.20	579.80	579.74	580.49
1891.	579.86	580.05	579.95	580.01	580.43	580.88	580.89	580.97	580.77	580.53	580.26	579.99	580.38
1892.	579.98	580.12	580.23	580.69	580.99	581.32	581.34	581.17	580.85	580.71	580.32	580.25	580.67

WATER LEVELS OF THE ST. LAWRENCE AND GREAT LAKES

579

1894	580-26	580-29	580-55	580-70	581-24	581-40	581-43	581-35	580-92	580-71	580-44	580-09	580-78
1895	579-91	579-80	579-77	579-97	580-13	580-18	580-07	579-95	579-68	579-31	579-09	578-98	579-74
1896	579-06	579-10	579-11	579-29	579-57	579-89	580-38	580-65	580-78	579-61	579-39	578-98	579-47
1897	579-33	579-41	579-72	579-89	580-38	580-65	580-88	580-78	580-53	580-24	579-08	579-34	579-47
1898	579-72	579-86	580-18	580-50	580-78	580-91	580-89	580-69	580-34	580-33	579-92	579-76	580-13
1899	579-53	579-61	579-81	580-08	580-52	580-83	581-04	580-96	580-82	580-49	580-31	579-81	580-32
1900	579-66	579-77	579-94	580-07	580-31	580-42	580-53	580-70	580-65	580-66	580-52	580-19	580-28
1901	579-95	579-92	580-34	580-49	580-92	580-97	581-06	581-11	580-79	580-62	580-26	579-94	580-53
1902	579-76	579-61	579-84	579-91	580-30	580-50	580-83	580-85	580-48	580-33	580-22	579-93	580-21
1903	579-72	579-90	580-09	580-36	580-45	580-63	580-81	580-71	580-79	580-62	580-26	579-94	580-36
1904	579-99	579-98	580-26	580-72	581-09	581-47	581-48	581-38	581-31	580-18	580-88	580-54	580-86
1905	580-39	580-31	580-45	580-83	581-09	581-47	581-48	581-38	581-31	580-18	580-88	580-54	580-86
1906	580-61	580-76	580-91	581-09	581-35	581-47	581-48	581-38	581-31	580-18	580-88	580-54	580-86
1907	580-64	580-68	580-74	581-00	581-35	581-47	581-48	581-38	581-31	580-18	580-88	580-54	580-86
1908	580-48	580-57	580-64	580-94	581-16	581-52	581-52	581-44	581-42	581-17	580-75	580-70	581-05
1909	579-88	580-02	580-10	580-36	580-88	581-64	581-83	581-72	581-28	580-92	580-27	580-13	581-06
1910	579-95	579-94	580-01	580-37	580-50	580-57	580-49	580-33	580-29	580-10	579-78	579-46	580-50
1911	579-20	579-29	579-23	579-50	579-77	580-05	579-89	579-83	579-75	579-65	579-37	579-48	579-60
1912	579-27	579-29	579-35	579-52	580-05	580-46	580-53	580-63	580-71	580-41	580-42	580-18	580-07
1913	580-05	579-84	580-13	580-82	581-13	581-26	581-26	581-26	580-98	580-75	580-44	580-30	580-68
1914	580-07	580-04	579-99	580-15	581-36	580-64	580-74	580-64	580-48	580-28	579-92	579-56	580-24
Means, 1860 to 1914	580-72	580-75	580-90	581-11	581-41	581-65	581-71	581-66	581-47	581-24	580-98	580-76	581-20

*From records of self-registering gauge on harbour pier.

NOTE.—These water levels also depend on B.M. on N.E. corner of Dr. Lapham's house at No. 521 Poplar St. as 596.385 ft. The Milwaukee staff gauge readings as reduced from publication in previous reports are slightly inconsistent owing to various assumptions in regard to the stability of the gauge and reference bench marks. The results of spirit levelling at infrequent intervals show a slight difference in the relative elevations of the reference B.M. on Dr. Lapham's house and the check point on the masonry pier of the Chestnut St. bridge. In the above table these different results are ascribed to the natural discrepancies of the levels and reductions are made on the assumption that these marks have remained stable and at the relative elevations as originally determined. This assumption is supported by the results of the latest levels (1901). Levels of Aug. 1901 and Nov. 1902 indicate that the gauge zero had risen 0.03 and 0.05 ft., respectively, since the previous test in 1896, explained no doubt, by extensive improvements being made in the vicinity. The corrections due to this change in zero have been uniformly distributed. Previous to 1896, the gauge zero remained stable with reference to the check point.

The Milwaukee gauge is situated at the foot of Poplar St. in the Milwaukee river, about two miles above the mouth and the readings do not indicate the stage of lake Michigan during high stages of water or ice gorges in the river.

LAKE SUPERIOR AT SUPERIOR, WIS. AND MARQUETTE, MICH.

Monthly means of water levels above mean tide at New York. Marquette readings depend on zero of gauge, 601.75, and B.M.3, 600.91, sea level elevations in feet; U. S. Lake Survey level adjustment of 1903.

Year	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Mean
1860*	602.44	602.19	602.19	602.69	602.92	603.09	603.05	603.10	603.08	603.12	602.95	602.59	602.78
1861*	602.48	602.15	602.01	602.42	603.05	603.20	603.36	603.32	603.23	603.26	602.92	602.54	602.83
1862*	602.19	602.00	602.03	602.09	602.77	602.76	602.73	602.90	603.02	602.95	602.62	602.35	602.53
1863*	602.16	602.03	601.86	601.90	602.03	601.95	602.05	602.71	602.73	602.56	602.21	602.16	602.19
1864*	601.81	601.60	601.67	601.69	601.85	602.00	602.09	603.07	602.25	601.99	601.86	601.68	601.87
1865*	601.47	601.46	601.33	601.77	602.26	602.67	602.99	603.07	603.08	602.87	602.34	602.47	602.28
1866*	601.74	601.53	601.53	601.98	602.23	602.42	602.71	602.94	602.67	602.69	602.36	602.74	602.49
1867*	602.20	602.09	601.90	602.12	602.12	602.72	603.05	602.93	603.01	602.99	602.56	602.47	602.30
1868*	602.08	601.49	601.85	602.04	602.44	602.35	602.57	602.49	603.02	602.62	602.22	602.32	602.30
1869*	602.10	601.86	601.41	601.99	602.39	602.40	602.77	603.23	604.08	603.56	603.22	602.57	602.32
1870*	602.32	602.11	602.12	602.22	602.55	602.36	602.55	602.55	602.72	602.56	602.35	601.45	602.32
1871*	601.36	600.76	601.18	601.68	602.21	602.33	602.40	602.46	602.77	602.49	602.42	601.68	601.96
1872*	601.47	601.36	601.24	601.14	601.79	602.17	602.44	602.61	602.77	602.67	602.52	602.22	602.03
1873†	602.12	601.67	601.70	601.71	602.31	602.61	602.90	603.08	603.14	603.04	602.96	602.60	602.48
1874†	602.15	602.13	602.09	602.19	602.26	602.46	602.84	602.93	603.03	603.09	602.91	602.60	602.56
1875†	602.28	602.24	602.28	602.28	602.50	602.86	602.94	602.94	603.17	603.02	602.88	602.68	602.67
1876†	602.48	602.27	602.18	602.21	602.75	603.45	603.82	603.93	603.82	603.49	603.33	603.05	603.06
1877†	602.60	602.45	602.19	602.10	602.10	602.07	602.14	602.02	601.85	601.92	601.72	601.40	601.87
1878†	602.20	602.32	601.55	601.52	601.79	602.07	602.48	601.60	601.49	601.54	601.54	601.20	601.43
1879†	601.50	601.46	601.76	601.37	601.01	601.24	601.48	602.44	602.44	602.39	602.33	602.07	601.76
1880†	600.88	600.84	600.78	600.78	601.47	602.30	602.45	602.44	602.61	602.95	602.85	602.60	602.21
1881†	601.81	601.71	601.62	601.53	601.83	601.99	602.44	602.38	602.60	602.43	602.41	602.22	602.21
1882†	602.25	602.00	601.89	601.81	601.97	601.99	602.44	602.56	602.60	602.09	601.94	601.83	602.01
1883†	601.99	601.70	601.70	601.95	601.95	602.06	602.31	602.33	602.29	602.52	602.42	602.21	601.90
1884†	601.76	601.73	601.61	601.32	601.54	601.74	601.88	601.89	602.16	602.40	602.25	601.92	602.15
1885†	601.98	601.80	601.72	601.67	602.00	602.28	602.08	601.99	602.57	602.40	602.07	601.78	601.85
1886†	601.72	601.59	601.53	601.62	601.87	602.01	602.08	601.99	601.97	602.07	601.83	601.61	601.88
1887†	601.47	601.49	601.86	601.44	601.91	601.92	602.20	602.28	602.14	602.88	602.74	602.39	602.28
1888†	601.50	601.51	601.41	601.44	601.91	602.60	602.88	602.54	602.67	602.51	602.20	601.90	602.14
1889†	602.07	601.85	601.68	601.69	602.04	602.16	602.35	602.47	602.60	602.57	602.36	602.00	602.00
1890†	601.76	601.63	601.39	601.36	601.57	602.02	602.32	602.47	601.89	601.94	601.83	601.42	601.69
1891†	601.64	601.51	601.63	601.43	601.68	601.73	601.76	601.88	601.93	601.83	601.66	601.38	601.51
1892†	601.42	601.14	601.01	601.02	601.35	602.18	602.48	602.54	602.45	602.42	602.26	601.60	601.86
1893†	601.10	601.01	601.06	601.16	601.66	602.35	602.60	602.74	602.88	602.97	602.74	602.39	602.28

WATER LEVELS OF THE ST. LAWRENCE AND GREAT LAKES

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1890†	601-76	601-63	601-39	601-36	601-51	602-02	602-32	602-54	602-48	602-45	602-42	601-94	601-83	601-42	601-69
1891†	601-64	601-51	601-47	601-43	601-63	602-08	601-68	601-88	601-73	601-88	601-93	601-83	601-66	601-38	601-51
1892†	601-42	601-14	601-01	601-02	601-35	602-18	602-48	602-54	602-48	602-45	602-42	601-94	601-83	601-42	601-69
1893†	601-10	601-01	601-06	601-16	601-66	602-18	602-48	602-54	602-48	602-45	602-42	601-94	601-83	601-42	601-69
1894†	601-83	601-67	601-76	601-91	602-69	602-91	602-97	603-10	603-02	603-04	602-99	602-80	602-59	602-52	602-62
1895†	602-50	602-28	602-11	602-01	602-38	602-70	602-90	602-95	603-09	603-14	602-85	602-52	602-62	602-59	602-59
1896†	602-32	602-12	601-92	602-01	602-66	603-04	603-10	603-12	602-95	602-63	602-70	602-55	602-60	602-37	602-60
1897†	602-39	602-16	602-08	602-11	602-45	602-78	603-08	603-20	603-14	602-94	602-64	602-21	602-60	602-37	602-60
1898†	601-83	601-65	601-46	601-70	602-45	602-18	602-59	602-72	602-82	602-76	602-56	602-33	602-17	602-69	602-69
1899†	601-96	601-76	601-79	601-76	602-47	602-96	603-19	603-35	603-51	603-32	603-21	603-00	602-77	602-69	602-69
1900†	602-63	602-45	602-23	602-13	602-30	602-36	602-58	603-09	603-22	603-04	603-07	603-13	602-77	602-69	602-69
1901†	602-78	602-48	602-28	602-22	602-51	602-61	603-09	603-22	603-46	603-54	603-51	603-13	602-77	602-69	602-69
1902†	602-32	602-11	601-97	602-02	602-34	602-64	602-88	602-89	602-93	602-81	602-81	602-58	602-53	602-77	602-77
1903†	602-24	601-98	601-88	602-07	602-56	602-94	603-14	603-25	603-27	603-50	603-18	602-80	602-73	602-73	602-73
1904†	602-50	602-31	602-23	602-17	602-47	602-77	602-86	602-95	603-08	603-20	603-14	602-74	602-71	602-71	602-71
1905†	602-47	602-13	602-04	602-25	602-49	602-67	602-97	603-10	603-32	603-33	603-17	602-96	602-74	602-74	602-74
1906†	602-22	602-06	601-94	602-15	602-48	602-78	602-90	602-93	602-95	602-84	602-66	602-45	602-63	602-63	602-63
1907†	602-10	601-87	601-72	601-63	602-03	602-55	602-70	602-93	602-93	603-17	603-15	602-88	602-53	602-51	602-51
1908†	601-69	601-46	601-35	601-29	601-62	601-94	602-18	602-40	602-77	602-59	602-26	602-26	601-93	601-93	601-93
1909†	602-01	601-74	601-51	601-62	601-75	601-90	601-88	601-97	601-96	601-92	601-68	601-41	601-78	601-78	601-78
1910†	601-07	600-89	600-66	600-54	600-82	601-27	601-62	602-09	602-18	602-18	602-03	601-90	601-44	601-44	601-44
1911†	601-76	601-53	601-43	601-45	601-90	602-20	602-35	602-53	602-65	602-60	602-44	602-20	602-09	602-09	602-09
1912†	601-89	601-57	601-51	601-64	602-07	602-36	602-64	602-78	602-83	603-02	602-88	602-70	602-32	602-32	602-32
1913†	602-40	602-21	601-92	601-84	602-23	602-46	602-68	602-76	602-80	602-73	602-45	602-08	602-38	602-38	602-38
Mean, 1860 to 1911...	602-00	601-86	601-72	601-78	602-10	602-40	602-59	602-70	602-75	602-70	602-52	602-24	602-27	602-27	602-27

*Superior, Wis. †Marquette, Mich. ‡Interpolated by the same differences to the observed monthly means for that year as are found in the means of monthly means for the ten year series 1862-71. §Interpolated by applying the average difference of Marquette, Mich. and Sault Ste. Marie, Mich. water levels for the year to the monthly mean at Sault Ste. Marie, Mich. ¶From records of self-registering gauge.

NOTE.—Superior, Wis. records are found in Report of Chief of Engineers, 1876, and are reduced to sea level elevations and 0-45 ft. added, to reduce to the new levels. This difference of 0-45 ft. is the same as used to correct the levels at Duluth, Minn. There is an uncertainty of 0-4 ft. in the elevation of the zero of the gauge at Superior, Wis. The possible alternative would make the levels 0-4 ft. lower than given in the table. The Marquette, Mich. records are considered reliable.

LAKE CHAMPLAIN, AT FORT MONTGOMERY, N. Y.

Monthly means of water levels above mean sea level at New York, depending on gauge zero, 92.5

Year	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Mean
1871	94.52	94.63	96.45	96.95	96.78	95.20	94.30	94.06	94.44	93.95	94.00	94.41	94.97
1872	94.46	94.56	95.06	96.51	96.82	96.44	95.47	96.13	97.10	96.30	96.40	95.96	95.93
1873	95.73	95.49	95.26	98.49	98.99	96.65	95.00	94.31	93.53	93.88	94.67	95.65	95.64
1874	96.65	96.69	96.90	97.50	97.63	97.56	96.38	95.84	94.66	94.14	93.56	93.39	95.91
1875	93.22	93.24	94.09	96.88	97.41	96.07	94.94	94.30	93.92	94.24	95.09	94.81	94.85
1876	95.68	95.56	96.11	97.66	99.11	97.23	95.56	94.28	93.47	93.27	93.18	92.98	95.34
1877	92.96	93.04	93.07	96.86	96.39	94.93	94.72	94.50	94.06	93.89	94.72	95.10	94.60
1878	94.56	94.06	95.04	96.92	97.34	95.52	94.49	95.32	95.21	94.05	94.25	96.55	95.28
1879	95.82	95.20	95.51	96.94	98.50	96.23	95.00	94.14	93.52	93.16	93.31	94.74	95.17
1880	94.83	95.56	96.06	96.38	96.04	94.83	94.01	93.37	92.81	92.65	94.20	93.97	94.56
1881	93.54	93.94	95.56	95.96	97.13	95.71	94.49	93.88	93.44	93.12	93.56	94.04	94.53
1882	95.05	94.87	96.30	96.00	95.76	96.39	95.51	94.36	93.75	93.63	93.13	92.80	94.80
1883	92.70	93.00	93.52	96.55	97.48	96.52	95.43	94.30	93.36	92.90	92.90	92.96	94.30
1884	93.08	94.08	95.80	98.18	97.80	96.13	94.55	94.13	94.38	94.46	96.29	96.26	94.75
1885	94.86	94.79	94.44	96.98	98.10	95.90	94.91	94.35	93.33	93.34	93.98	95.32	95.24
1886	96.34	96.08	95.93	97.70	98.87	96.95	94.55	93.89	93.69	93.08	92.97	94.37	95.29
1887	94.64	95.84	95.31	97.86	98.07	97.01	94.27	94.22	94.43	94.93	95.88	96.15	95.79
1888	94.62	94.70	95.27	97.90	99.07	97.01	95.91	95.26	94.35	94.86	95.02	95.82	95.87
1889	96.91	96.14	95.63	97.12	96.97	96.48	95.57	94.36	95.63	95.51	95.62	95.38	96.15
1890	95.54	96.08	96.80	97.26	98.22	97.77	95.77	94.93	93.66	93.11	93.00	93.63	95.25
1891	95.21	96.08	97.80	98.81	97.73	95.63	94.44	96.77	95.92	94.56	94.75	94.73	95.87
1892	95.40	95.20	94.82	97.07	96.42	96.87	97.91	96.03	94.96	94.04	93.46	93.49	94.67
1893	94.00	93.83	94.37	96.15	97.46	96.03	94.38	93.53	93.09	93.06	93.56	93.61	94.48
1894	94.43	94.49	96.14	96.43	95.80	95.22	94.39	93.87	93.06	93.10	93.50	95.17	94.51
1895	93.81	93.70	93.73	96.51	97.36	95.63	94.26	93.76	93.63	93.42	94.19	94.29	95.31
1896	95.78	94.96	96.65	99.13	98.09	95.58	94.54	93.85	93.31	93.10	94.40	95.83	95.58
1897	93.97	93.84	94.63	97.46	98.08	97.49	96.92	96.70	93.57	94.04	94.40	94.55	95.33
1898	95.67	95.82	97.71	98.04	96.76	95.38	94.41	93.69	93.44	94.08	94.16	94.78	94.84
1899	94.62	94.36	95.39	97.39	98.10	95.56	94.37	93.61	93.01	92.88	93.96	95.61	95.53
1900	94.74	95.75	96.20	98.17	98.65	96.80	95.01	94.25	93.69	93.46	93.22	94.60	95.32
1901	95.03	94.34	94.47	99.11	98.75	97.23	95.38	94.49	93.80	93.40	94.70	94.55	96.08
1902	95.14	94.72	98.64	99.26	97.57	97.24	96.21	95.41	94.51	93.55	93.49	93.37	95.26
1903	94.84	95.61	98.71	99.67	95.86	94.97	94.72	94.49	93.91	93.55	93.49	93.78	94.91
1904	93.51	93.63	94.93	97.78	97.62	96.02	94.74	93.89	93.81	94.57	94.63	93.78	94.91

WATER LEVELS OF THE ST. LAWRENCE AND GREAT LAKES

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1902.....	95.14	94.72	98.64	99.26	97.53	97.24	90.21	93.41	93.91	93.55	93.49	93.37	95.26
1903.....	94.84	95.61	98.71	99.67	95.86	94.97	94.72	94.49	93.81	94.57	93.63	93.78	94.91
1904.....	93.54	93.63	94.93	97.78	97.62	96.02	94.74	93.89	93.81	94.57	94.63	93.78	95.26
1905.....	93.85	93.77	94.23	97.65	96.50	95.65	96.00	95.82	95.74	95.26	94.57	94.54	95.30
1906.....	95.05	95.68	95.37	96.49	97.02	96.44	95.59	94.65	93.90	93.55	93.48	93.99	95.10
1907.....	94.96	94.88	94.78	97.31	97.83	95.87	95.12	94.20	93.92	94.48	95.71	96.02	95.42
1908.....	96.63	96.40	96.83	98.29	98.55	96.59	94.75	93.81	93.10	92.31	92.22	92.29	95.14
1909.....	92.72	94.41	95.87	98.30	99.27	97.25	95.16	93.91	93.27	93.13	92.88	93.01	94.94
1910.....	93.17	94.09	96.51	96.75	96.50	96.08	94.89	94.13	93.68	93.56	93.75	93.68	94.79
1911.....	94.34	94.31	94.26	97.15	97.57	95.28	94.06	93.28	93.01	93.20	93.58	94.51	94.55
1912.....	94.85	94.28	94.52	98.59	98.32	97.72	95.26	94.11	94.02	94.30	95.40	95.46	95.57
1913.....	96.07	96.00	96.61	99.60	96.74	95.63	94.26	93.50	92.91	92.88	93.22	93.52	95.08
1914.....	93.50	93.91	94.39	97.77	98.53	95.71	94.32	93.50	93.29	93.03	92.97	93.18	94.51
Means, 1871 to 1914.....	94.70	94.80	95.60	97.53	97.55	96.20	95.05	94.37	93.94	93.75	94.07	94.47	95.17

ADDENDA*

CANADIAN PACIFIC RAILWAY—MAIN LINE†

Elevation
above mean
sea level

Maple Creek station.....	2,507.0
Kincorth station.....	2,550.1
Hatton station.....	2,477.3
Cummings station.....	2,400.2
Walsh station.....	2,443.5
Irvine station.....	2,504.7
Pashley station.....	2,415.8
Dunmore station.....	2,411.0
Medicine Hat station.....	2,181.2

DOMINION ATLANTIC RAILWAY—MAIN LINE.†

Windsor station.....	28.3
Falmouth station.....	30.5
Mount Denison station.....	50.2
Hantsport station.....	50.1
Avonport station.....	35.0
Horton Landing station.....	42.1
Grand Pré station.....	27.8
Wolfville station.....	27.0
Port Williams station.....	31.3
Kentville junction.....	35.0
Coldbrook station.....	68.4
Cambridge station.....	65.4
Waterville station.....	93.5
Berwick station.....	138.1
Aylesford station.....	100.3
Auburn station.....	94.9
Kingston station.....	85.9
Wilmot station.....	69.5
Middleton station.....	70.1
Halifax and Southwestern Ry., crossing.....	70.5

DOMINION ATLANTIC RAILWAY—TRURO RANCH‡

Windsor station.....	28.3
Brooklyn station.....	34.1
Scotch Village station.....	135.1
Mosherville station.....	36.1
Stanley station.....	41.2
Clarksville station.....	70.7
Kennetcook station.....	98.2
Patterson station.....	116.3
Doddridge station.....	139.3
Burton station.....	140.8
South Maitland station.....	31.4
Green C's station.....	85.3
Prince Road station.....	212.0
Clifton station.....	32.1
McNutt Creek station.....	34.8
Lower Truro station.....	33.0

*The data contained in the *Addenda* were not available when pp. 1 to 500 were printed
 †See page 13 ‡See p. 19 §See pp. 20-21

CANADIAN PACIFIC RAILWAY—SAULT STE. MARIE BRANCH*

Elevation
above mean
sea level

Copper Cliff station.....	859.8
Naughton station.....	805.1
Whitefish station.....	809.9
Victoria Mine station.....	826.7
Worthington station.....	775.2
Turbine station.....	700.7
Nairn station.....	721.1
Algoma Eastern Ry. crossing, A.E. Ry., rail, 698.6; C.P.Ry., rail.....	725.9
Espanola station.....	686.8
Webbwood station.....	664.8
Massey station.....	638.8
Walford station.....	672.5
Spanish station.....	609.9
Cutler station.....	612.3
Kenabutch station.....	644.1
Sprague station.....	600.8
Algoma station.....	604.3
Blind River station.....	601.1
Dean Lake station.....	627.4
Dayton station.....	604.0
Livingstone station.....	645.2

CANADIAN PACIFIC RAILWAY—MACLEOD BRANCH†

Calgary station.....	3,439.4
Canadian Northern Ry. crossing, C.N.Ry., rail, 3,447.9; C.P.Ry., rail.....	3,420.8
Turner station.....	3,443.7
Midnapore station.....	3,432.8
Academy station.....	3,495.9
De Winton station.....	3,631.6
Sandstone station.....	3,530.1
Okotoks station.....	3,447.8
Aldersyde station.....	3,415.8

CANADIAN PACIFIC RAILWAY—ALDERSYDE BRANCH‡

Kipp station.....	3,059.5
Nobleford station.....	3,225.7
Barons station.....	3,152.8
Carmanagay station.....	3,082.2
Champion station.....	3,152.0
Kirkcaldy station.....	3,324.5
Vulcan station.....	3,442.0
Ensign station.....	3,261.6
Brant station.....	3,269.1
Blackie station.....	3,360.8
Mazeppa station.....	3,360.3
Aldersyde station.....	3,415.8

*See pp. 58-59 †See pp. 88-89. ‡See p. 89

CANADIAN PACIFIC RAILWAY—COUTTS BRANCH*

Elevation
above mean
sea level

Wilson station	3,045.1
Stirling station	3,041.6
Wells station	3,126.4
New Day station	3,184.7
Warner station	3,313.2
Milk River station	3,424.2
Coutts station	3,468.1

CANADIAN PACIFIC RAILWAY—CROWSNEST LINE†

Dunmore junction	2,411.0
Dauntless station	2,397.5
Bulls Head station	2,411.8
Sevenpersons station	2,480.0
Stornham station	2,591.4
Whitla station	2,747.8
Winnifred station	2,725.7
Bow Island station	2,621.4
Burdett station	2,576.9
Grassy Lake station	2,652.9
Purple Springs station	2,626.4
Taber station	2,671.0
Barnwell station	2,734.2
Chin station	2,784.9
Coaldale station	2,828.1
Montana junction	3,013.5
Lethbridge station	2,983.3
Lenzie station	3,056.9
Kipp, junction with Aldersyde branch	3,059.5
Monarch station	3,103.7
Pearce station	3,099.2
Macleod, junction with Macleod branch	3,116.1
Stowe station	3,230.6
Peigan station	3,321.9
Chokio station	3,433.9
Brocket station	3,512.4
Maunsell station	3,619.9
Pincher station	3,771.2
Cowley station	3,842.4
Lundbreck station	3,918.3
Burmis station	4,004.5
Passburg station	4,044.3
Hillcrest station	4,122.5
Frank, junction with Grassy Mountain Ry	4,212.2
Blairmore station	4,235.0
Coleman station	4,312.3
Sentinel station	4,448.5

*See pp. 89-90 †See pp. 90-91

Miles from
Colvalli

KOOTENAY CENTRAL RAILWAY*

Elevation
above mean
sea level

15.2	Fenwick station	2,471
23.0	Fort Steele station	2,510
29.9	Doyle station	2,516
35.6	Wam station	2,523
46.0	Skookunachuck station	2,606
52.9	Torrent station	2,592
55.3	Copper Creek station	2,592
64.1	Canalflat station	2,653
69.2	Environ station	2,651
76.8	Radium station	2,644
83.1	Strata station	2,615
88.6	Lake Windermere station	2,615
92.4	Athalmer station	2,615
101.3	Firlands station	2,620
151.4	Mons station	2,606
162.1	Nicholson station	2,572
		2,566

Miles from
Midway

KETTLE VALLEY RAILWAY†

1.1	West Midway station	1,921
18.5	Zamaro station	2,066
20.0	Westbridge station	2,070
24.3	Rhone station	2,158
30.8	Taurus station	2,361
41.8	Beaverdell station	2,601
46.1	Carmi station	2,792
53.6	Lois station	3,153
60.9	Lakeville station	3,473
69.8	Cookson station	3,904
76.6	McCulloch station	4,144
83.6	Myra station	4,164
90.9	Roth station	4,091
97.2	Lorna station	4,039
106.2	Chute Lake station	3,911
113.0	Adra station	3,208
118.6	Glen Fir station	2,590
125.5	Arawana station	1,848
133.7	South Penticton station	1,150
135.2	Penticton station	1,132
140.5	Winslow station	1,522
142.9	West Summerland station	1,729
149.0	Faulder station	2,212
157.0	Kirton station	2,999
165.9	Thirak station	3,323
172.4	Osprey Lake station	3,606
179.7	Usk station	3,352
186.7	Erris station	3,231
193.7	Jura station	3,065
198.7	Belfort station	2,559
243.5	Brookmere station	3,220
248.7	Brodie station	3,022
255.8	Kingsvale station	2,667
263.7	Glen Walker station	2,278

*See pp. 94, 95 †See pp. 96-98

Miles from Kaslo	CANADIAN PACIFIC RAILWAY—KASLO AND SLOCAN BRANCH*	Elevation above mean sea level
5.1	Zwicky station.....	2,302
11.6	Adamant station.....	2,749
14.9	Blaylock station.....	3,089
20.8	Zincton station.....	3,530
22.9	Rambler station.....	3,154
25.6	Parapet station.....	2,762

HALIFAX AND SOUTHWESTERN RAILWAY—MAIN LINE†

Upper Woods Harbour station.....	14.0
Lower East Pubnico station.....	14.5
D'Entremont station.....	20.7
East Pubnico station.....	15.9
Pubnico station.....	12.2
Lower Argyle station.....	69.7
Central Argyle station.....	42.4
Argyle station.....	12.2
Belleville station.....	54.9
Tusket station.....	34.9
Pleasant Lake station.....	15.1
Arcadia station.....	27.6
Yarmouth station.....	19.7

HALIFAX AND SOUTHWESTERN RAILWAY—MIDDLETON AND PORT WADE BRANCH‡

Mossman station.....	134.9
Northfield station.....	130.5
Riversdale station.....	122.6
New Germany junction.....	237.1
New Germany station.....	258.3
Cherryfield station.....	344.0
Hastings junction.....	543.6
Springfield station.....	548.9
Ridgeroad station.....	574.7
Dalhousie station.....	640.3
Squirreltown station.....	615.7
Albany station.....	571.2
Alpena station.....	531.3
Nictaux station.....	150.1
Middleton station.....	70.1

CANADIAN NORTHERN RAILWAY—NORTH LAKE BRANCH§

Slate River station.....	727.4
Flint station.....	780.0
Silver Creek station.....	808.6
Hymel station.....	860.2
Nolalu station.....	1,055.5
Hillside station.....	1,096.8
Silver Mountain station.....	1,278.8
Whitefish station.....	1,340.4
North Lake station.....	1,567

*See p. 100 †See p. 202 ‡See p. 203 §See p. 253

ADDENDA

588a

Miles from Toronto	CANADIAN NORTHERN RAILWAY—MAIN LINE— TORONTO TO PORT ARTHUR	Elevation above mean sea level
276.9*	Capreol junction.....	1,003
281.3	Whistle station.....	1,033
286.1	Sellwood junction.....	1,084
293.5	Anstice station.....	1,187
301.2	Raphoe station.....	1,244
306.2	Caipha station.....	1,262
313.3	Thorlake station.....	1,336
315.8	Gowganda junction.....	1,352
323.7	Felix station.....	1,336
328.5	Ruel station.....	1,345
336.0	Stupart station.....	1,315
341.0	Kashbaw station.....	1,325
345.7	Ostrom station.....	1,325
353.9	Makwa station.....	1,235
363.7	Gogama station.....	1,165
372.6	Bethnal station.....	1,207
382.1	Stackpool station.....	1,255
392.7	Gladwick station.....	1,275
402.3	Tionaga station.....	1,251
410.1	Kukatash station.....	1,142
414.6	Palomar station.....	1,169
425.2	Foley station.....	1,078
434.9	Shawmere station.....	1,045
443.9	Missonga station.....	1,175
453.5	Oatland station.....	1,097
463.1	Agate station.....	1,045
471.4	Dunkin station.....	1,075
476.1	Ilkestone station.....	1,102
482.6	Peterbell station.....	1,033
490.3	Argolis station.....	1,035
500.3	Fire River station.....	1,007
509.1	Dishnash station.....	1,073
516.5	Minnipuka station.....	1,126
526.5	Neswabin station.....	1,151
534.6	Oba station.....	1,086
540.0	Albany Forks station.....	1,120
548.6	Macduff station.....	1,085
555.8	Penhurst station.....	1,059
562.2	Shekak station.....	1,003
573.4	Hornepayne station.....	1,090
577.8	Lennon station.....	1,102
585.8	Tondern station.....	1,128
592.6	Obakami station.....	1,089
601.3	Lux station.....	1,049
608.2	Osawian station.....	1,087
615.5	Hillsport station.....	1,051
621.7	White Otter station.....	999
628.3	Taradale station.....	1,044
635.7	Gamsby station.....	1,129
642.8	Arms station.....	1,108
650.8	Caramat station.....	1,121
657.4	Pagwachuan station.....	1,105

* See pp. 238-242. The altitudes on pp. 588a and 588b refer to track opposite station building or to middle of siding. When pp. 238-242 were printed this information was not available. Since printing, the names of many stations have been changed, some station grounds have been moved and new ones established.

Miles from Toronto	CANADIAN NORTHERN RAILWAY—MAIN LINE— TORONTO TO PORT ARTHUR	Elevation above mean sea level
664.9	Seagram station.	1,098
673.4	Longuelac station.	1,040
682.4	Octopus station.	1,094
689.7	Langmuir station.	1,099
698.5	Bankfield.	1,128
706.6	Keemle station.	1,139
714.9	Kinghorn station.	1,091
723.9	Jellicoe station.	1,086
729.7	Nezah station.	1,067
737.5	Jackpine station.	1,031
744.4	Beardmore station.	1,007
749.5	Warneford station.	975
757.5	Fairloch station.	926
765.2	Orient Bay station.	862
774.1	McKirdy station.	902
783.9	Hogarth station.	792
788.8	Cronyn station.	744
795.8	Parmacheene station.	633
801.8	Nipigon station.	616
808.7	Robford station.	652
813.5	Coughlin station.	675
823.8	Dorion station.	672
830.6	Ancliff station.	738
838.5	Pearl station.	854
844.5	Pass Lake station.	836
853.1	Sibley station.	688
858.4	Silver Harbour station.	654
864.4	Wild Goose station.	622
869.8	Current station.	639

CANADIAN NORTHERN RAILWAY—MAIN LINE*

Elevation
above mean
sea level

New names of stations are as follows:—

Yellowhead, *now* Lucerne
 Grant Creek, *now* Grantbrook
 Moose Lake, *now* Resplendent
 Siding No. 4, *now* Mount Robson
 Bear Creek, *now* Morey
 Tête Jaune Cache, *now* Jackman
 Siding No. 7, *now* Swift Creek
 Aparejos, *now* Lempriere
 Canoe Landing, *now* Wolfenden
 Hell Gate, *now* Messiter
 Round Prairie, *now* McMurphy
 Government Ferry, *now* Clearwater
 Genier, *now* Chinook Cover
 Josephine, *now* McLure
 Hefley Creek, *now* Hefferly
 Frederick, *now* Cox
 Drynoch, *now* Seddell
 Rattlesnake Flat, *now* Gossett
 Saddle Rock, *now* Stout
 Riley, *now* Cheamview

INTERCOLONIAL RAILWAY—FREDERICTON BRANCH†

McGivney, junction with National Transcontinental Ry.....	571.6
Clearwater station.....	503.5
Astle station.....	517.4
Boiestown station.....	235.7
Ludlow station.....	178.8
McNamee station.....	143.9
Carroll station.....	166.1
Doaktown station.....	121.0
Blissfield station.....	250.6
Hurley Brook station.....	332.9
Weaver station.....	345.3
Upper Blackville station.....	233.5
Forks station.....	182.6

INTERCOLONIAL RAILWAY—INTERNATIONAL RAILWAY‡

Campbellton, junction with Intercolonial railway, main line.....	42.4
Upsalquitch station.....	133.6
Kedgwick station.....	896.6
Anderson station.....	914.3
Hazen station.....	930.5
Nickel station.....	907.1
Jardine Brook station.....	878.3

Miles from
Grand Falls"DUE NORTH LINE," FROM GRAND FALLS, N.B.,
NORTHWARD§

0.0	St. John river, above Grand falls.....	410
2.4	Brook, water.....	650
7.5	Highest point on line between St. John and Grand rivers.....	940
11.2	Brook, tributary of Grand river.....	780
14.8	Grand river, water.....	573

* See pp. 249-252. † See p. 293. ‡ See p. 294.

§ Levelling by British Boundary Commissioners. It forms the northward extension of the line from St. Croix to St. John river, p. 388.

Miles from Grand Falls	"DUE NORTH LINE," FROM GRAND FALLS, N.B., NORTHWARD	Elevation above mean sea level
21.0	Highest point between Grand and Wagan rivers.....	921
23.0	Wagan river.....	563
24.3	Restigouche river, water.....	547
31.7	Summit.....	1,218
33.0	Brook, water.....	975
33.2	Brook, water.....	906
34.0	Summit.....	1,177
35.8	Brook, water.....	750
36.8	Mempticook river, water.....	681
39.3	Summit.....	1,387
39.5	Brook, water.....	1,131
41.4	Summit.....	1,518
42.5	Brook, water.....	835
44.6	Summit.....	1,672
45.5	Brook, water.....	1,377
47.3	Summit.....	1,706
48.9	Brook, water.....	959
49.9	Summit.....	1,711
50.5	Ground, on line, 1,447; brook, 0.22 mile distant, water.....	697
52.5	Ground, on line, 1,405; brook, 0.58 mile distant, water.....	590
53.4	Hedgwick river; dam, 564; water, 680 ft. above dam.....	569
55.3	Summit, highest point on line.....	1,820
59.0	States brook, water.....	920
64.1	States brook, water.....	1,140
67.8	Divide between St. John and St. Lawrence waters.....	1,412
68.9	Beaver stream.....	1,076

QUEBEC—SUNDRY ALTITUDES*

St. Anselme.....	496
Frampton hill.....	1,110
St. Zephyra.....	132
Wendover.....	195
Wickham.....	388
Durham.....	609
Melbourne.....	381
Junction of Leech stream with Connecticut river.....	931
Ridge between Connecticut and Margalloway rivers.....	2,904
Ridge between Connecticut and St. Francis rivers.....	2,581
Sources of St. Francis river.....	1,762
Mount Ben d'Urban.....	2,527
Gipp peak.....	3,060
Mount Gosford.....	3,665
Peak, six miles south of lake Makanamak.....	2,633
Lake Makanamak.....	1,319
Lake Emilie.....	1,641
Sandy Bay settlement.....	1,637
Intersection of Kennebec road and Metgermette river.....	826
Bald mountain.....	3,624
Portage lake.....	1,604
Reed lake.....	1,363
Lake Archer.....	1,303
Source of rivière Ouelle.....	980
Upper lake Metis.....	957
Lower lake Metis.....	889

*Barometric elevations, determined by British Boundary Commissioners. See pp. 389-390.

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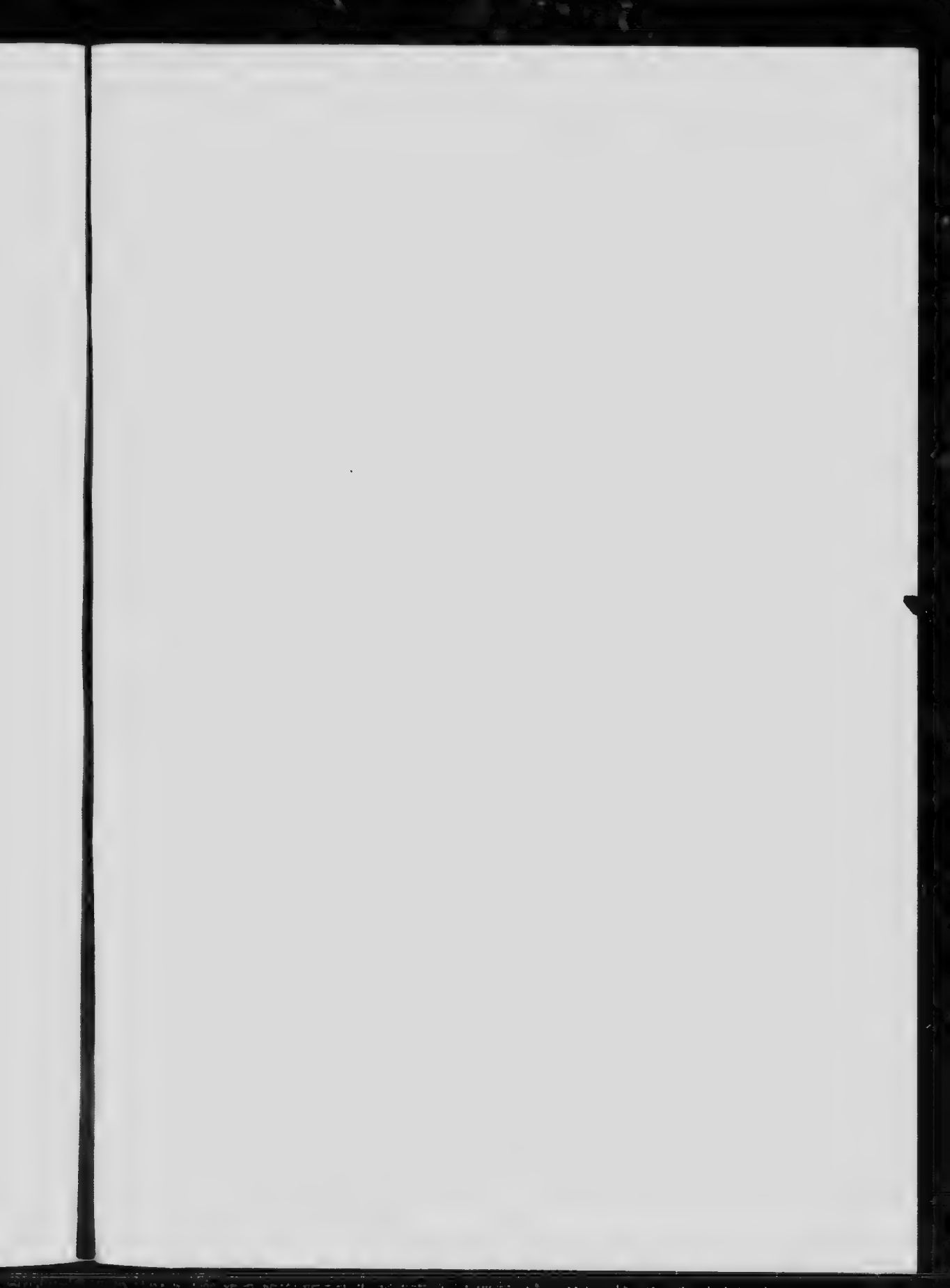
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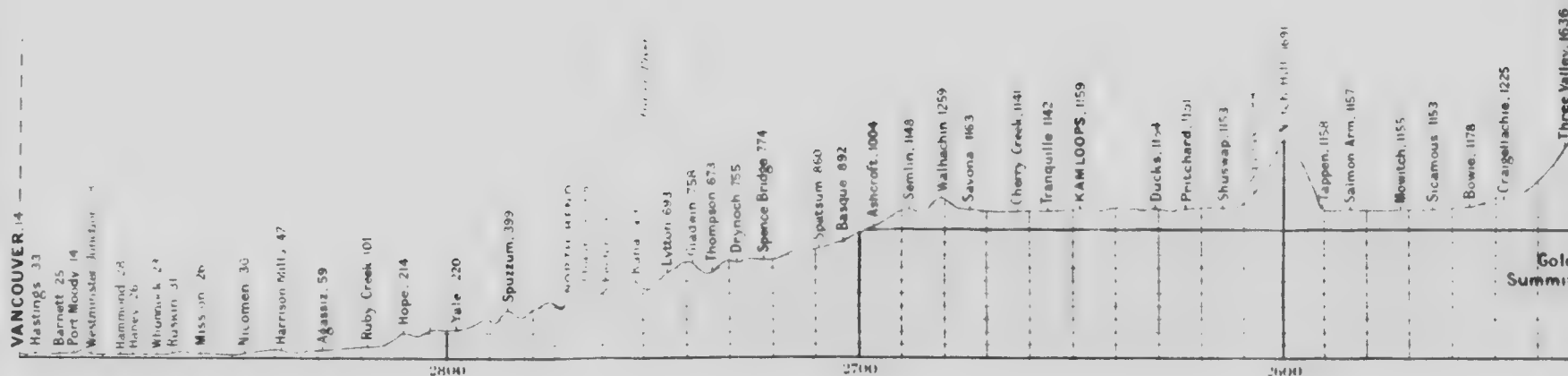
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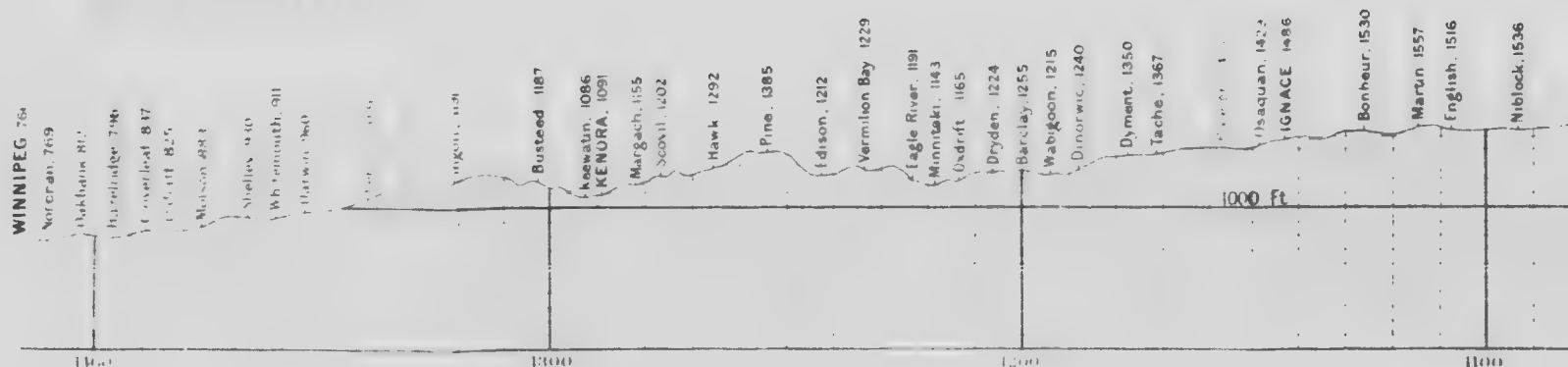


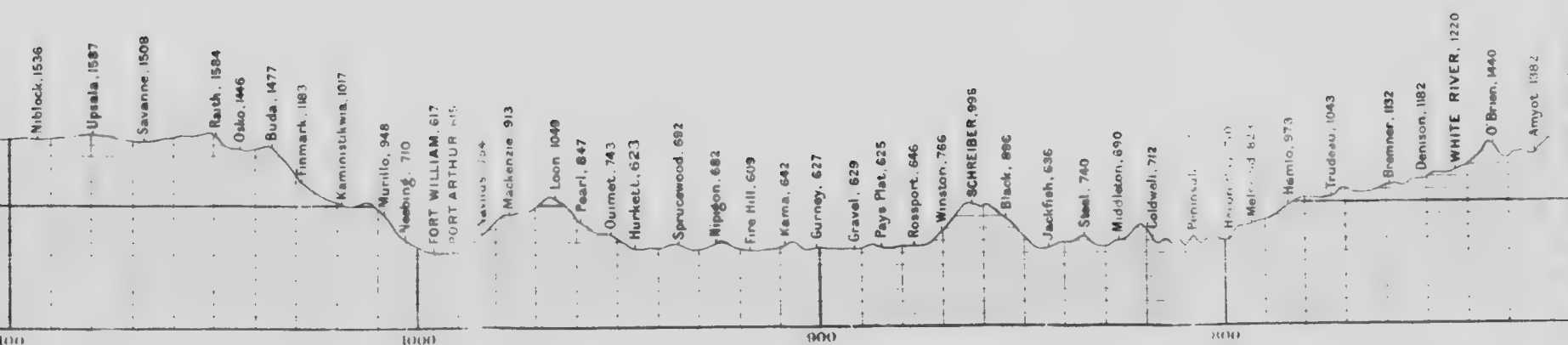
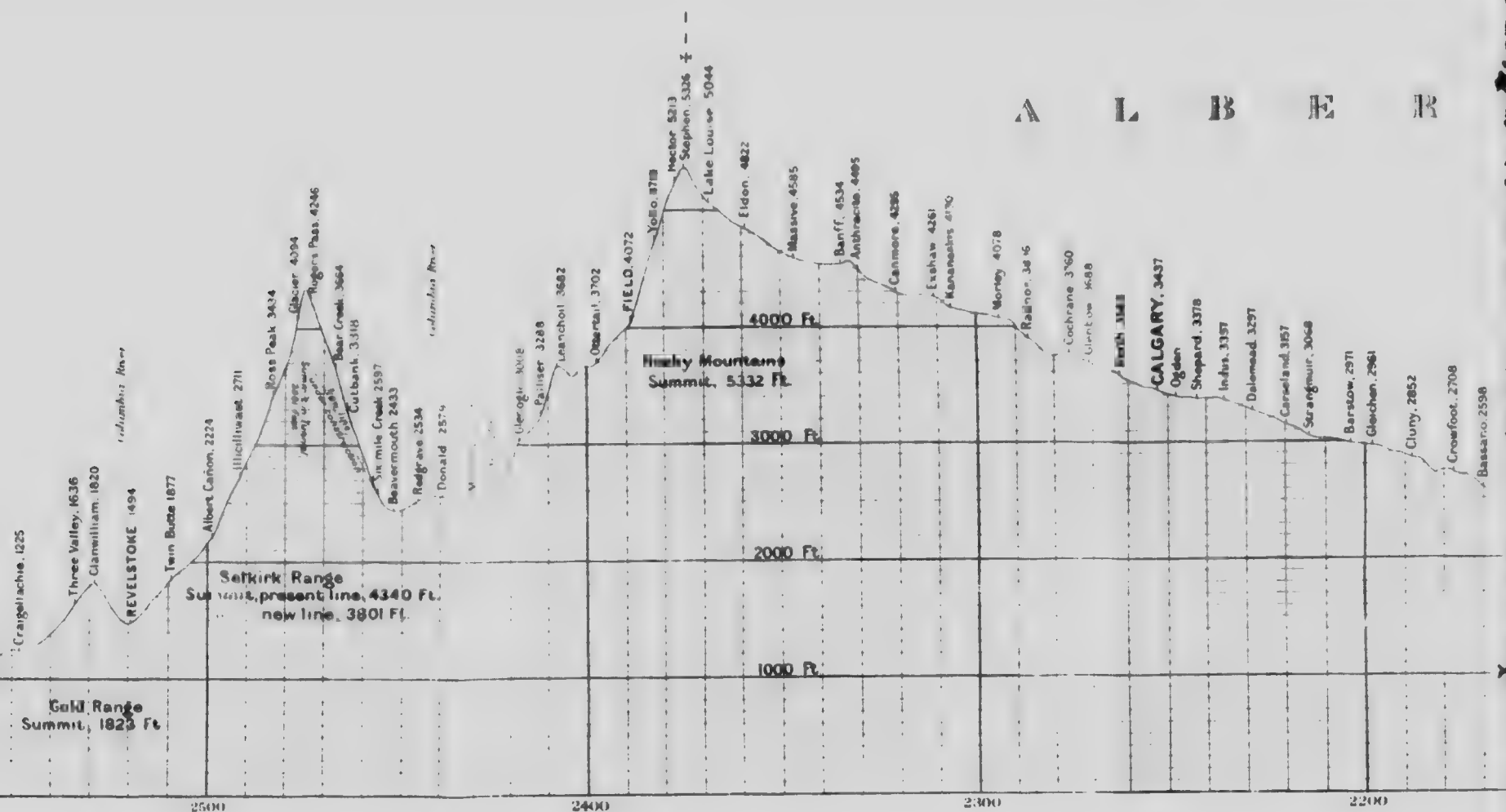
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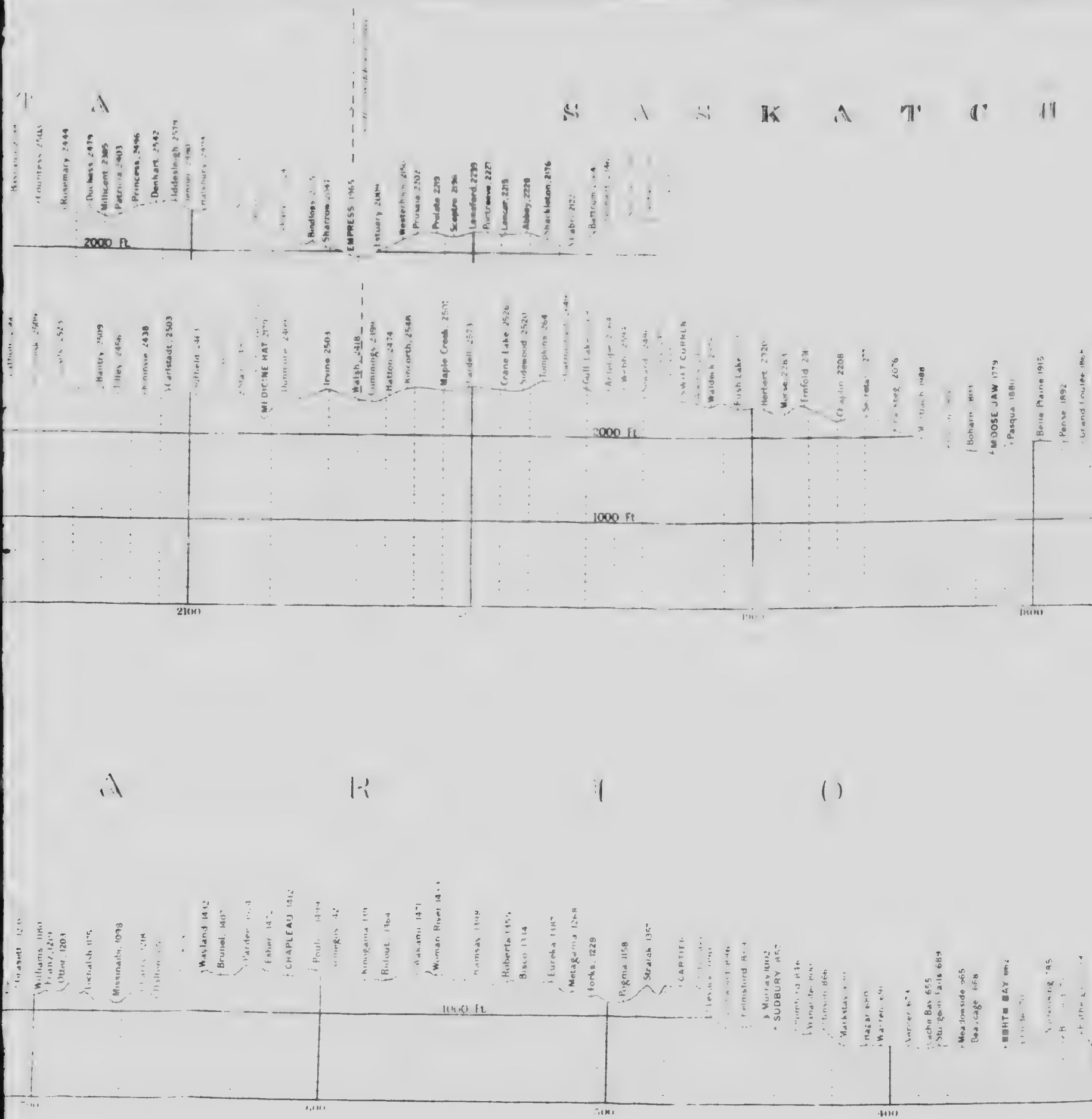


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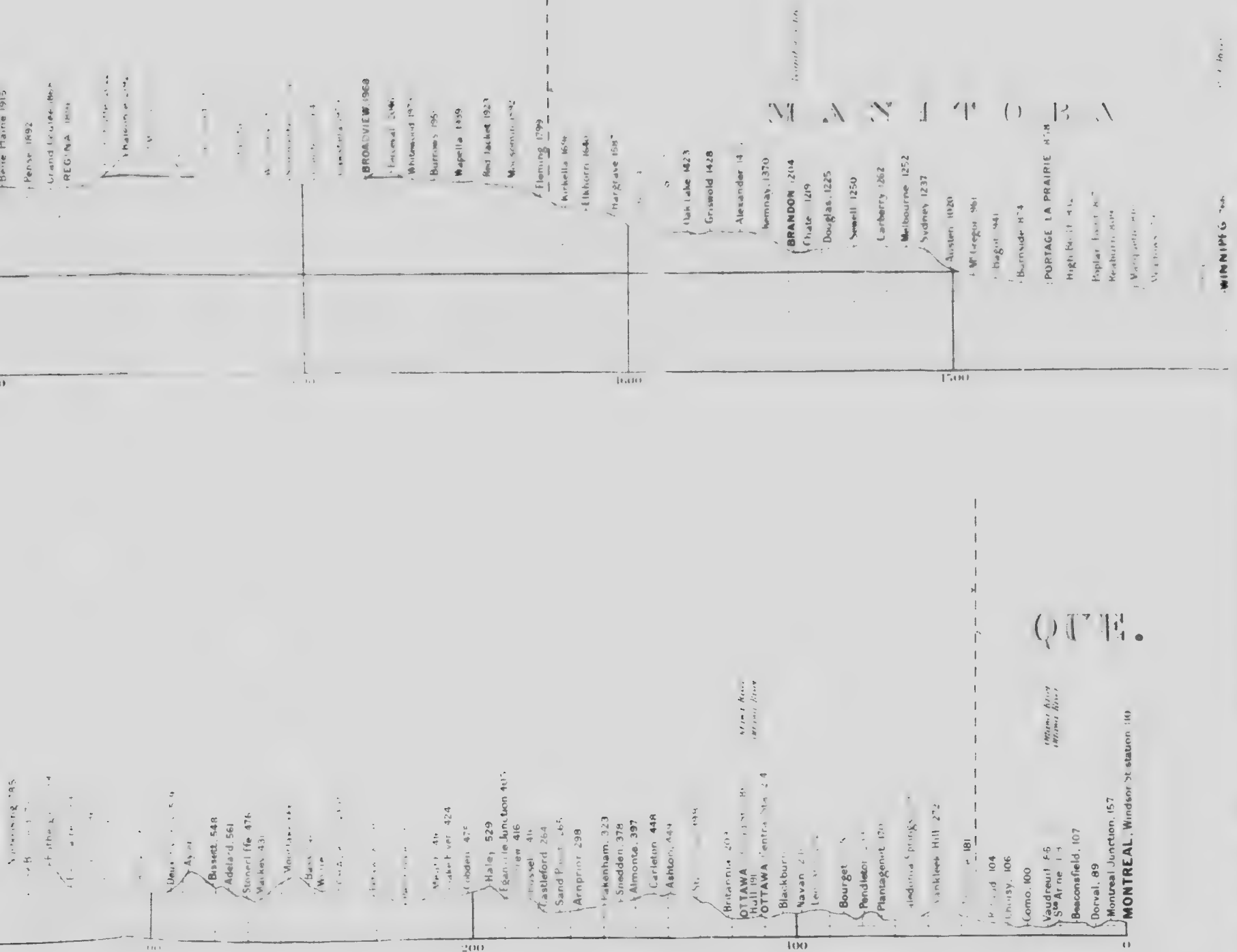


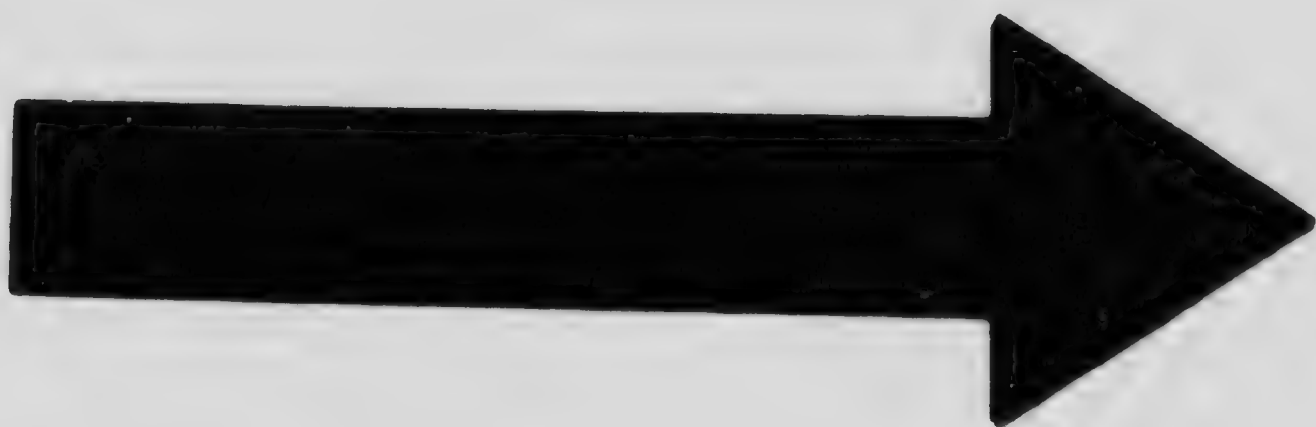




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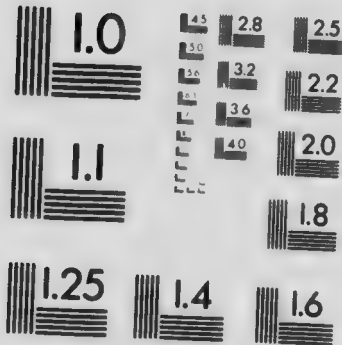
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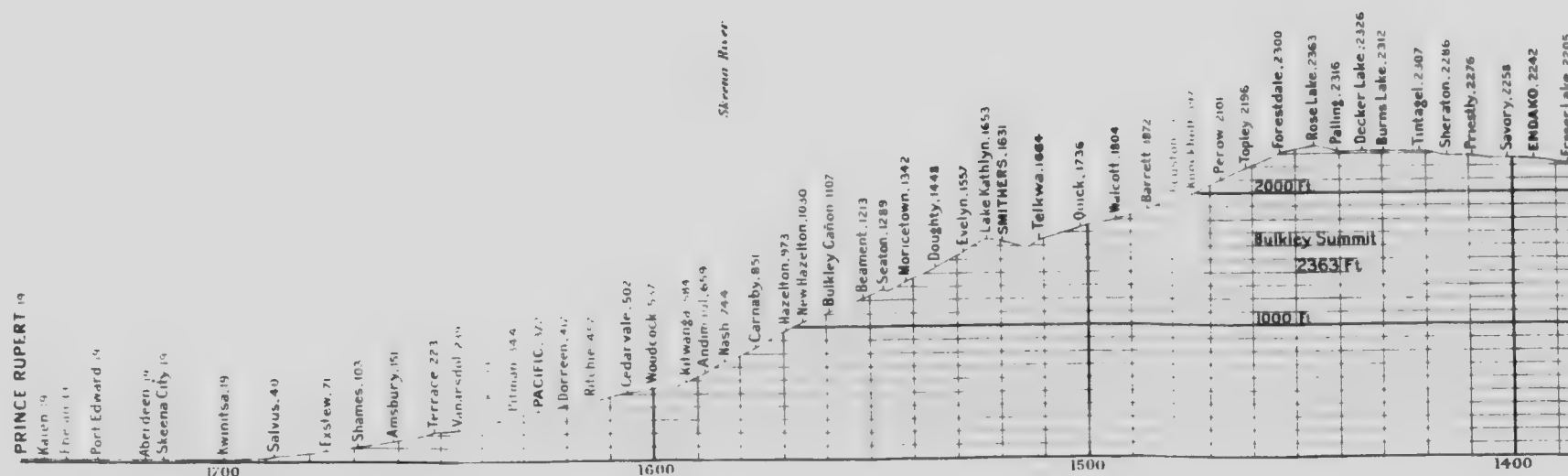
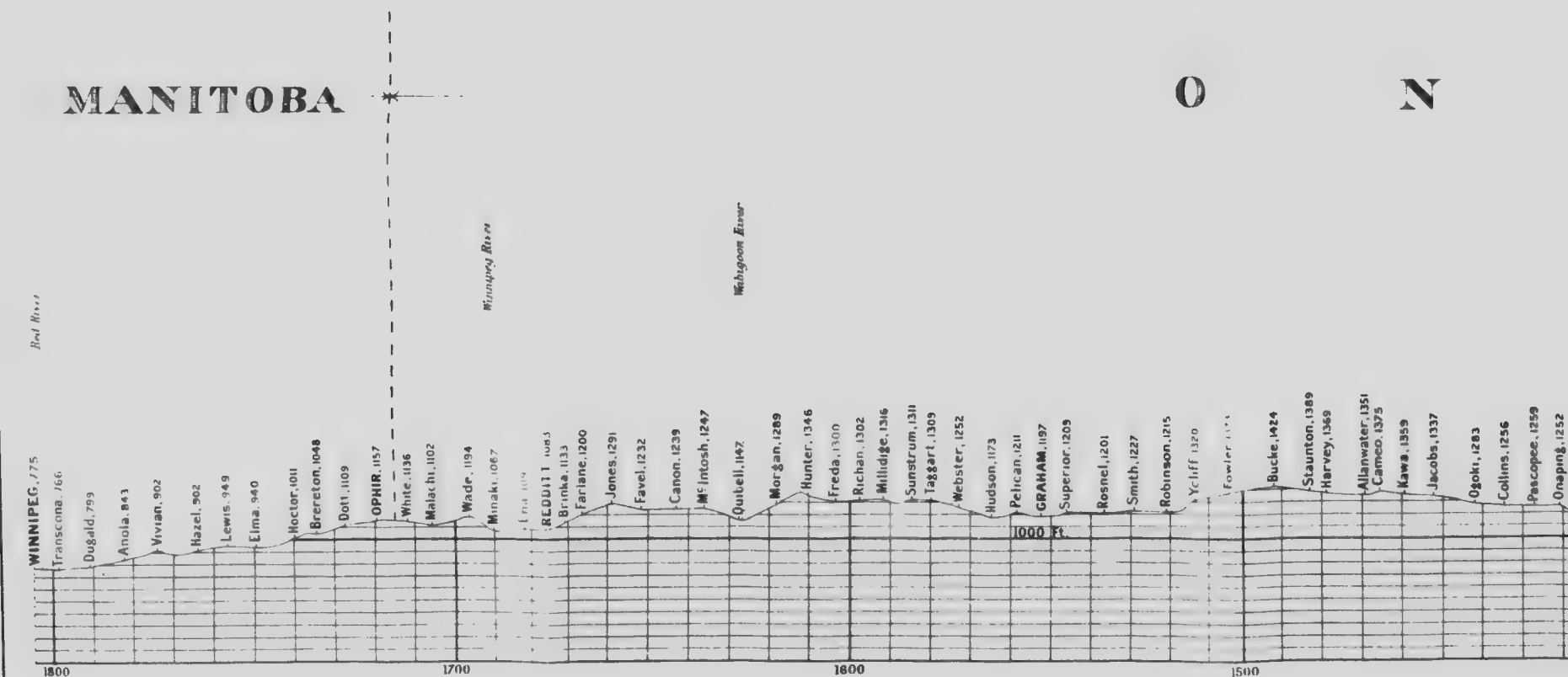
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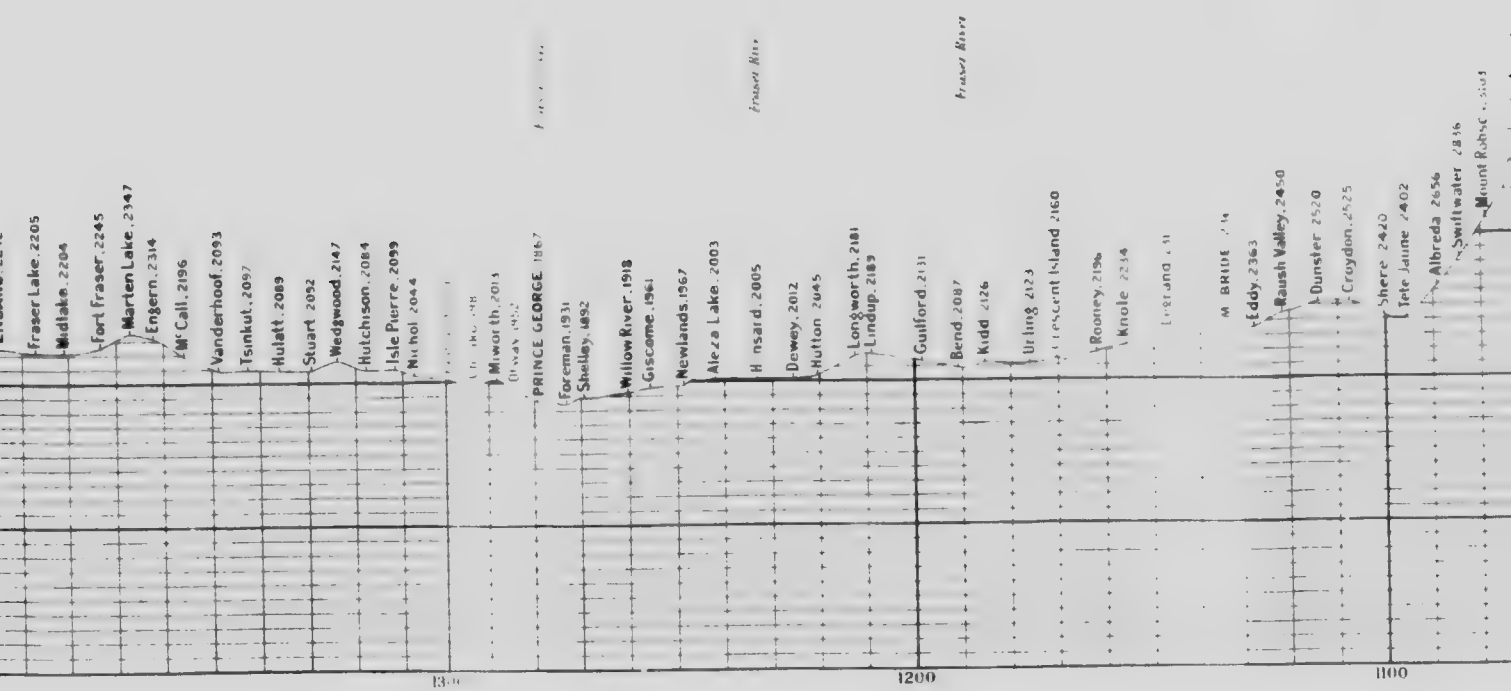
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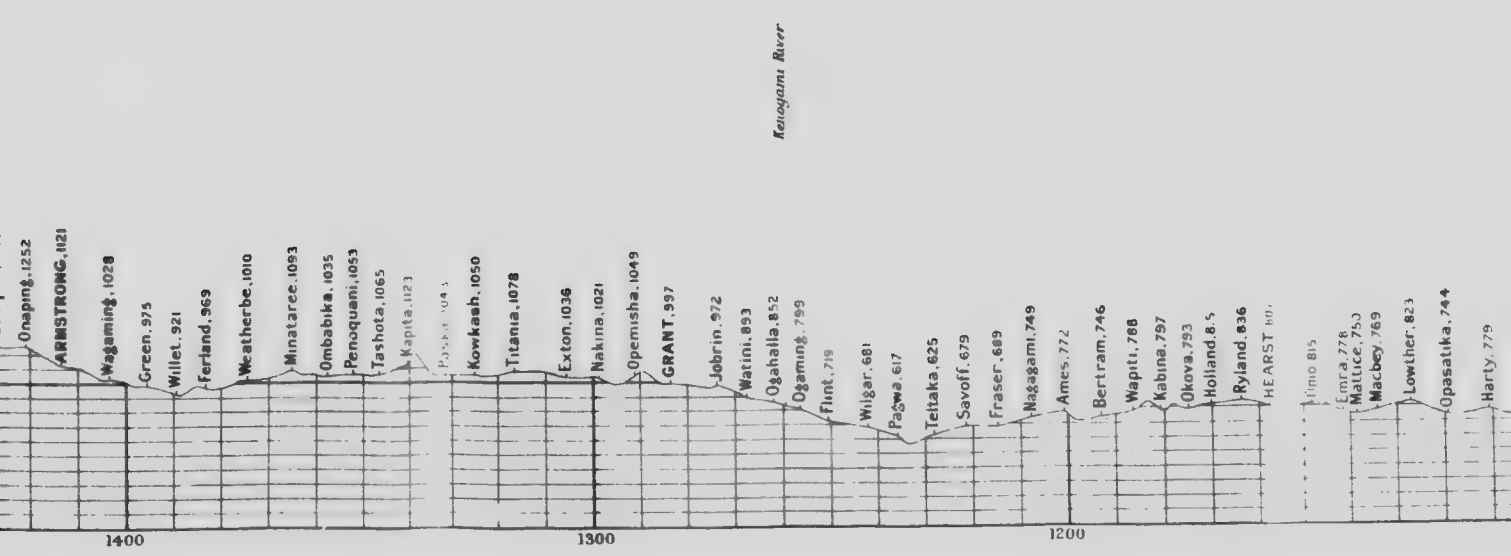


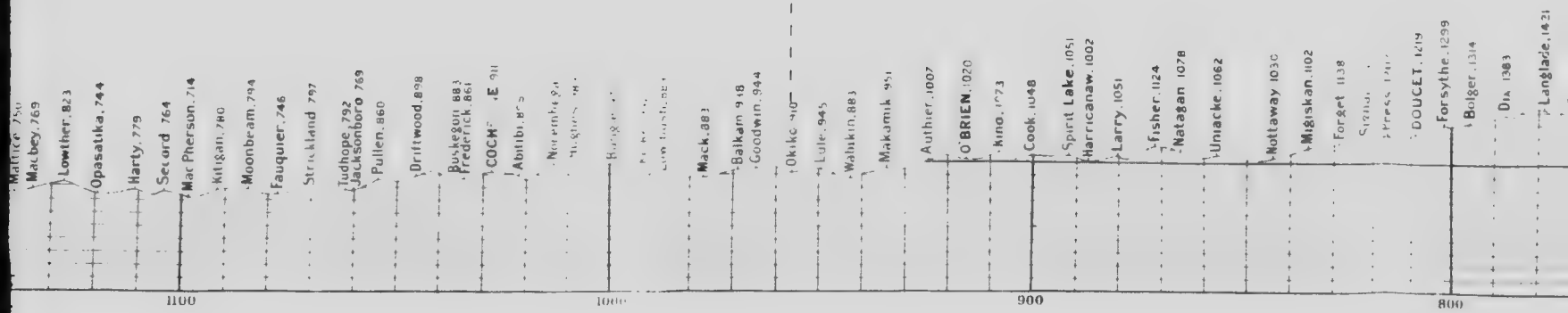
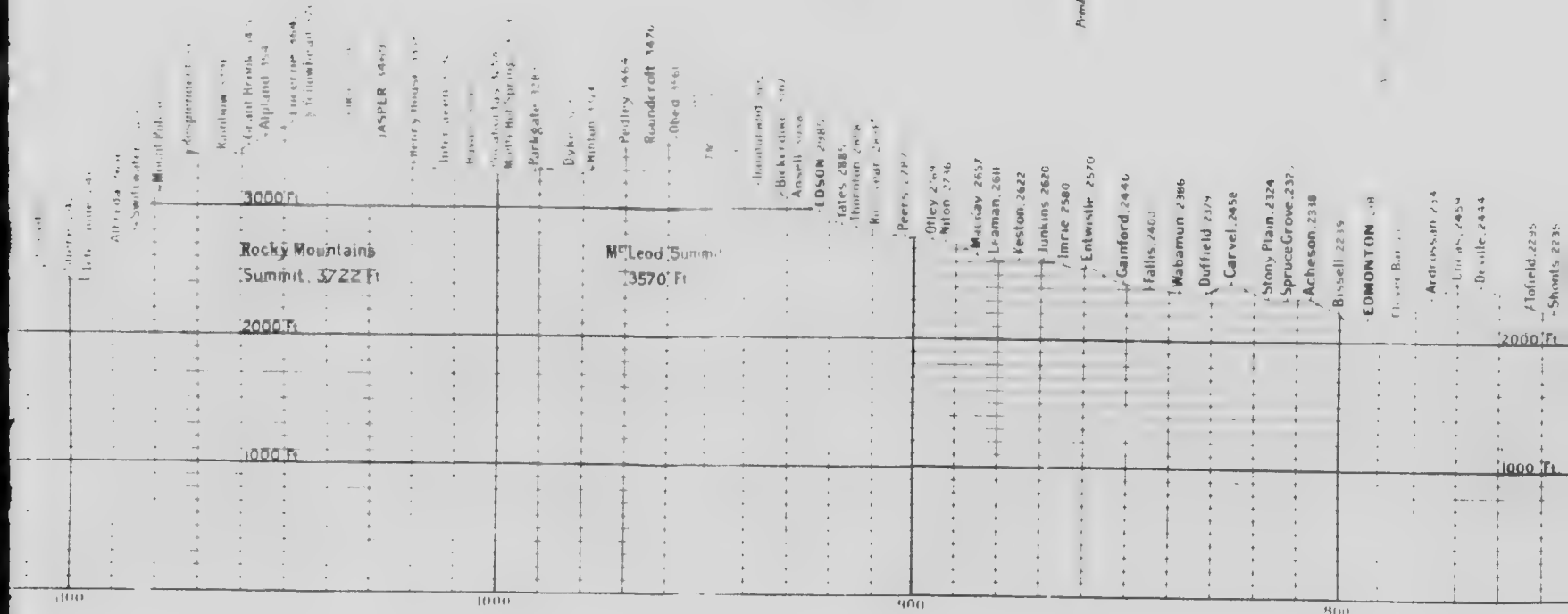
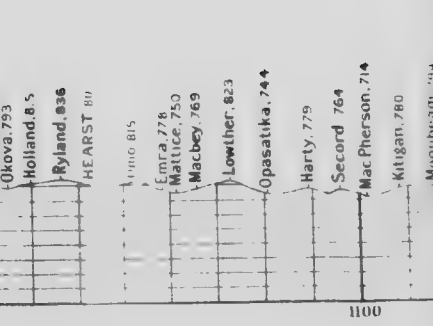
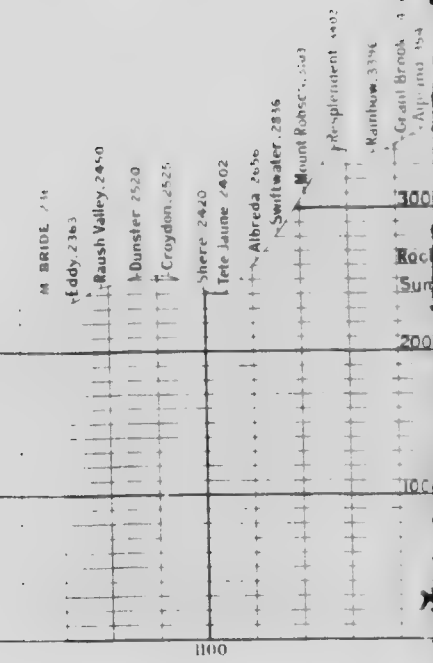


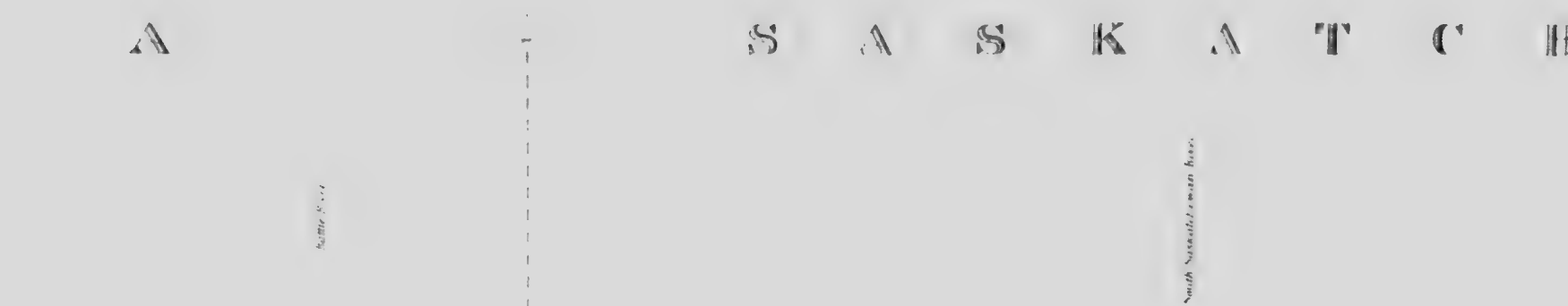
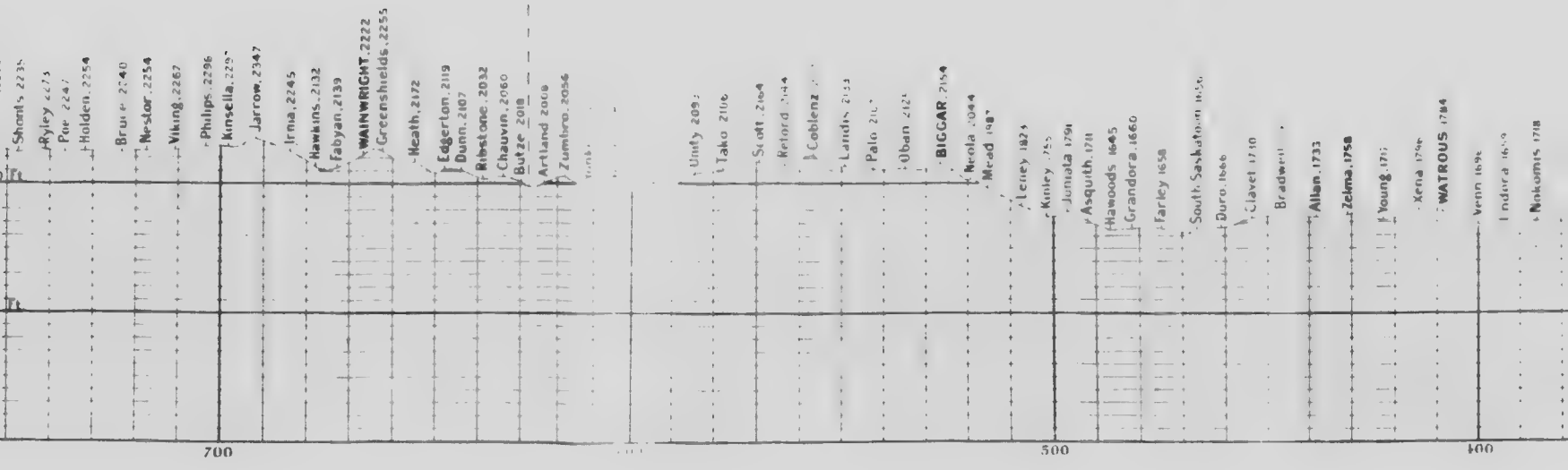
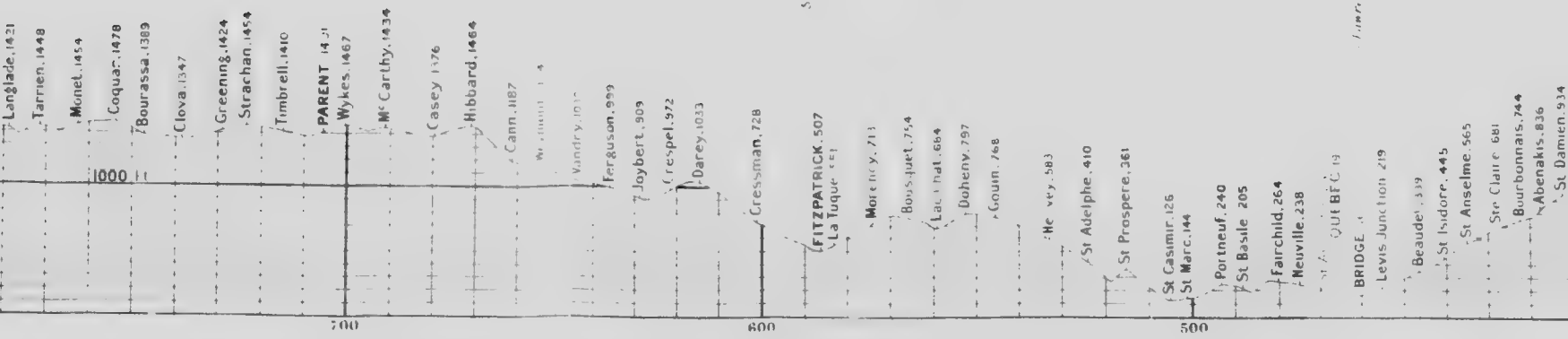
C O L U M B I A



T A R I O

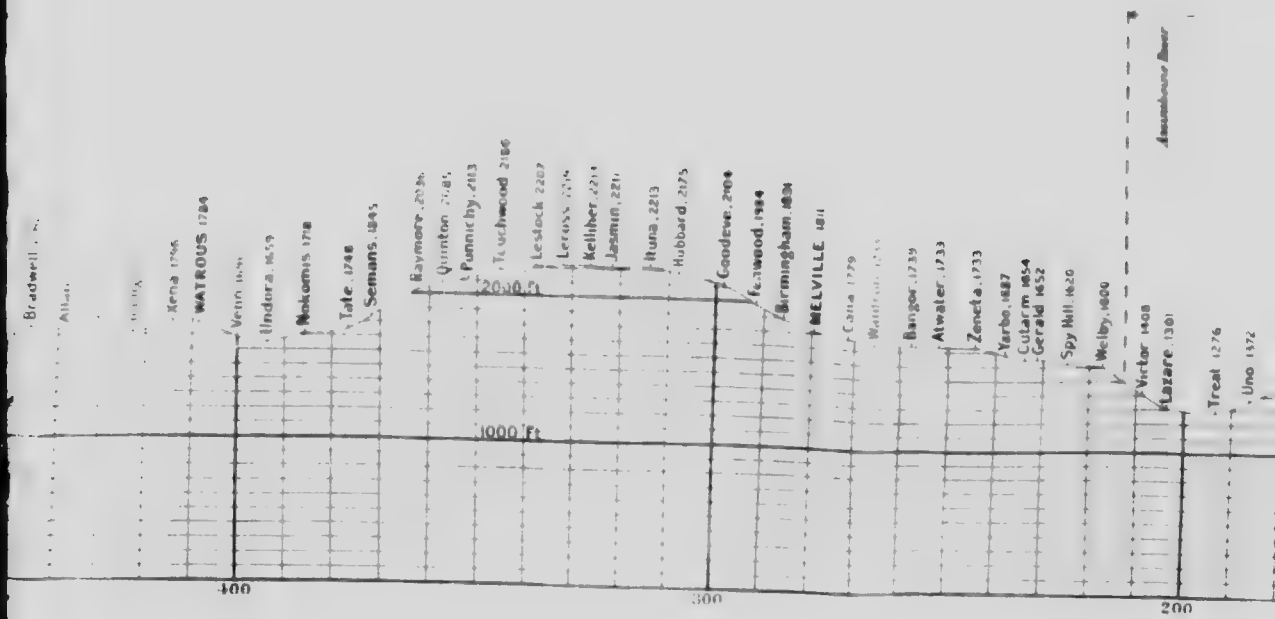






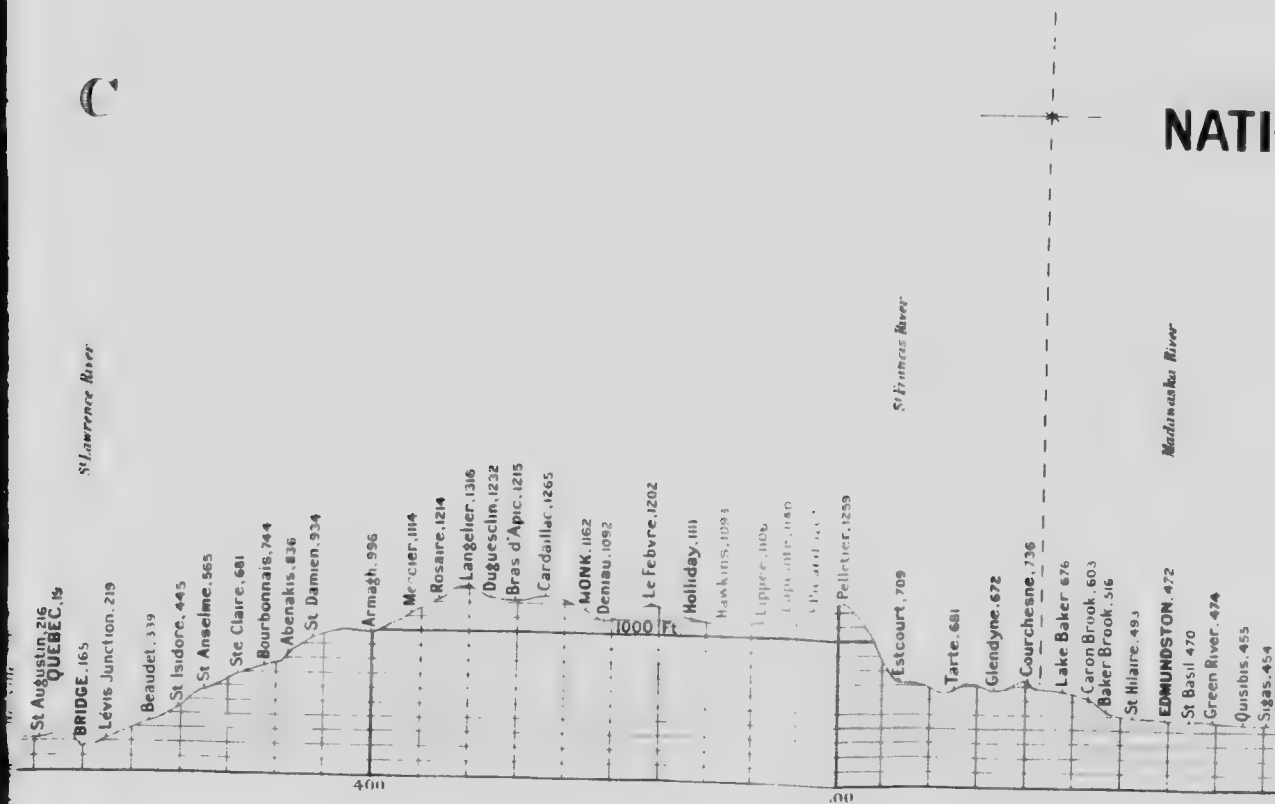
T C H E W A N

GI



C

NATI

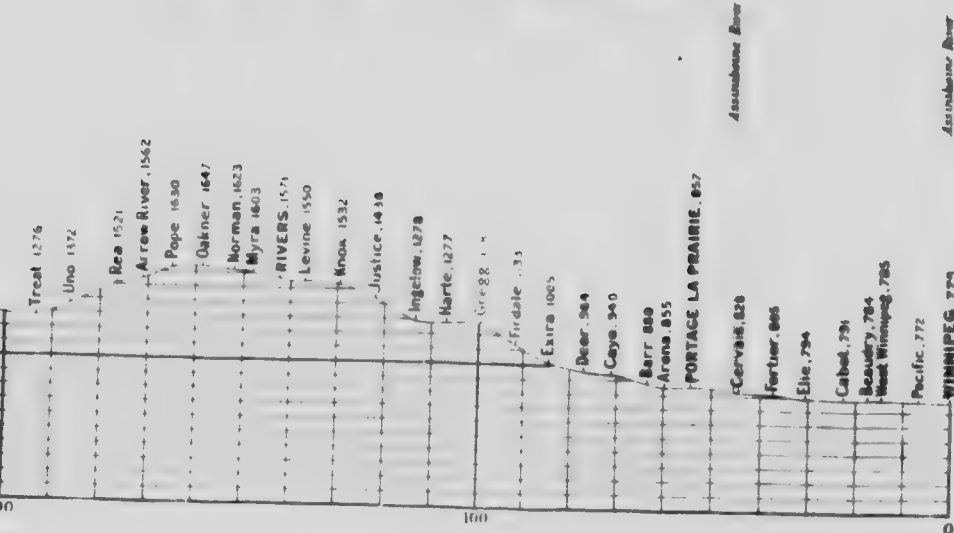


PROFILE OF GRAND TRUNK PACIFIC RAILWAY

MAIN LINE
WINNIPEG TO PRINCE RUPERT

SCALES
Horizontal 10 Miles 1 Inch
Vertical 1000 Feet 1 Inch

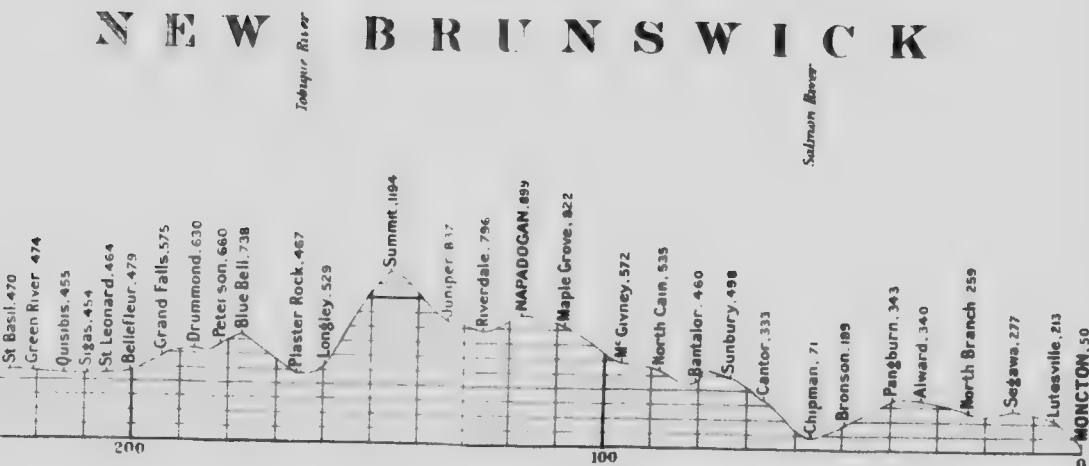
M A N I T O B A

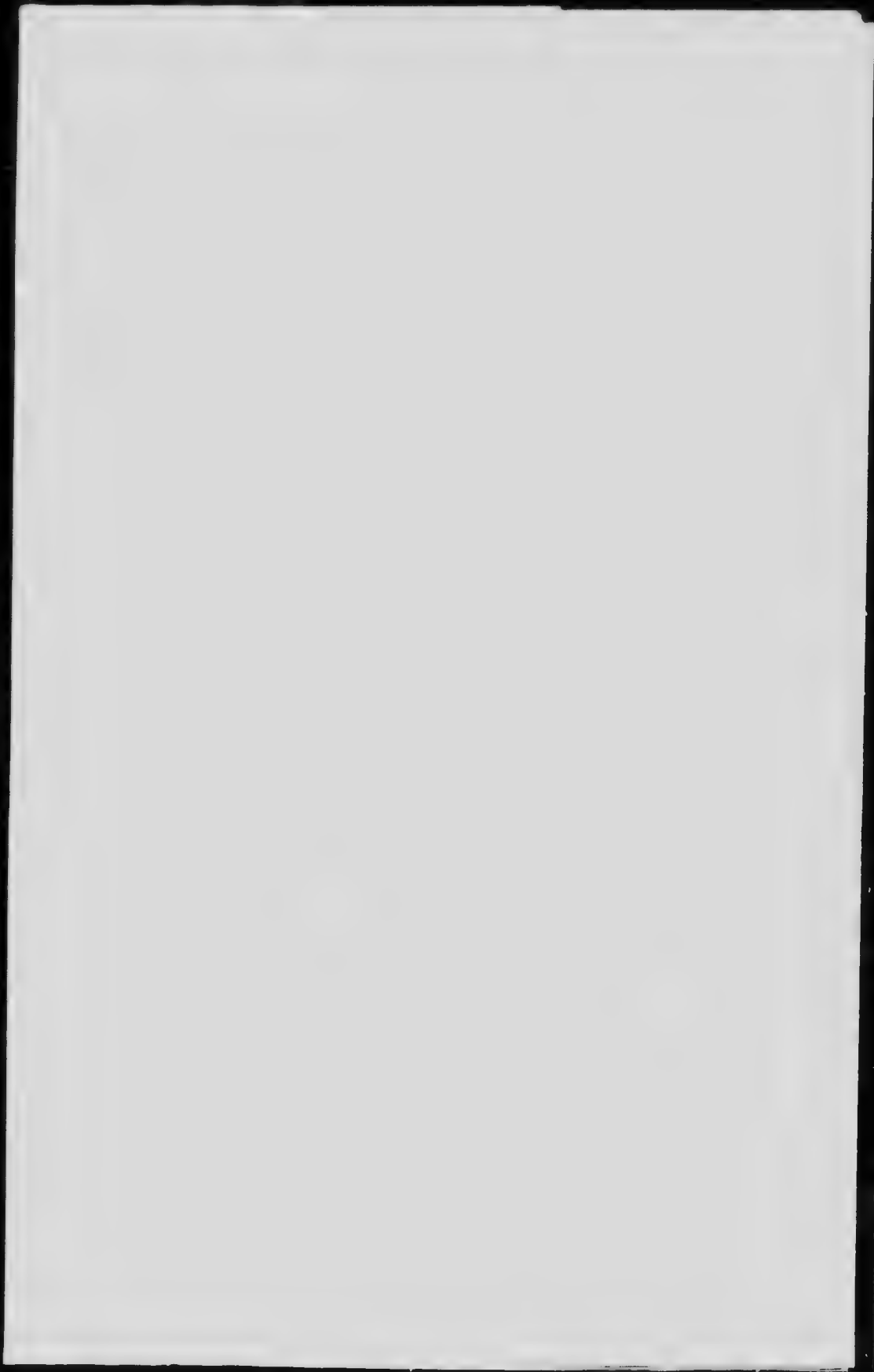


PROFILE OF NATIONAL TRANSCONTINENTAL RAILWAY MONCTON TO WINNIPEG

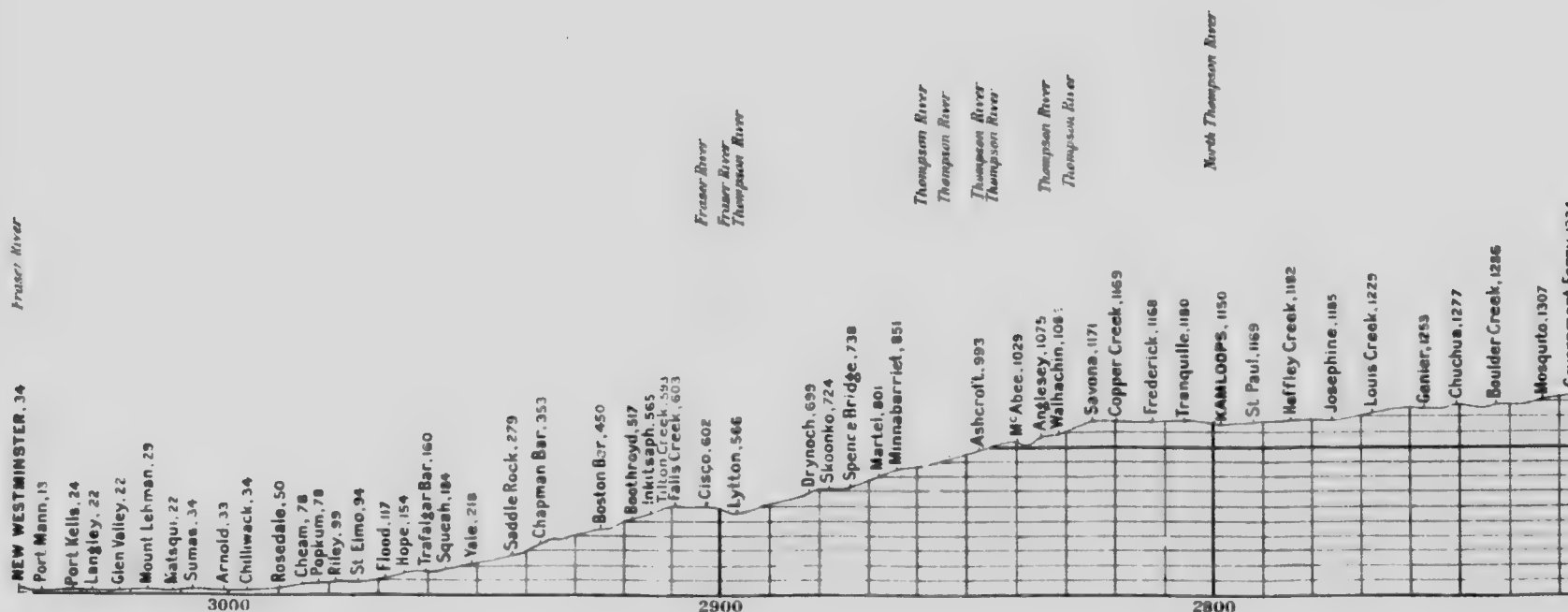
SCALES
Horizontal 10 Miles 1 Inch
Vertical 1000 Feet 1 Inch

N E W B R U N S W I C K



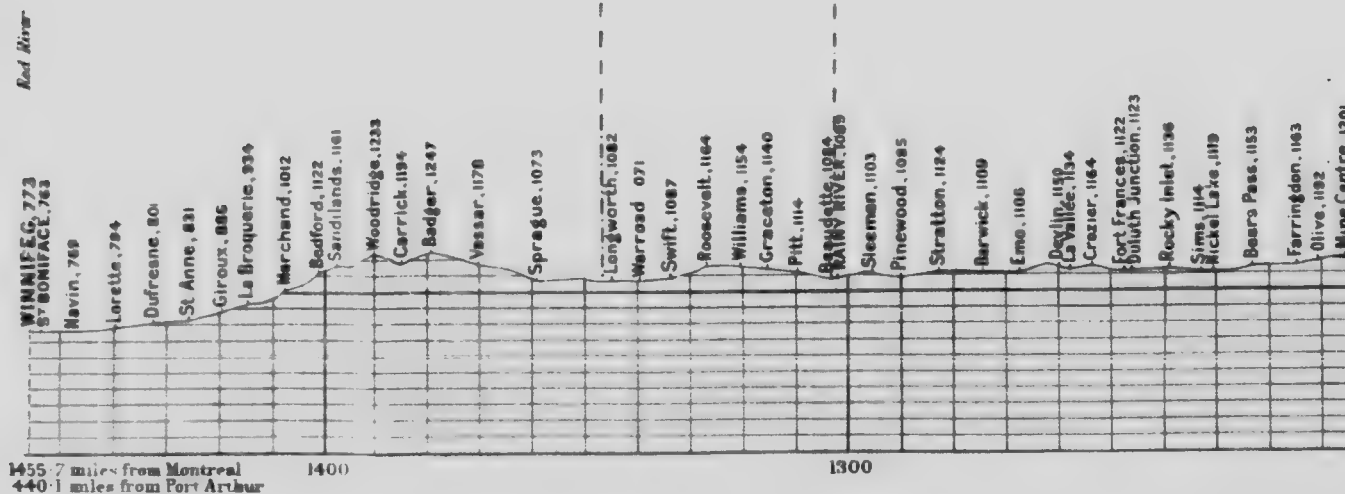


B R I T I S H C O L

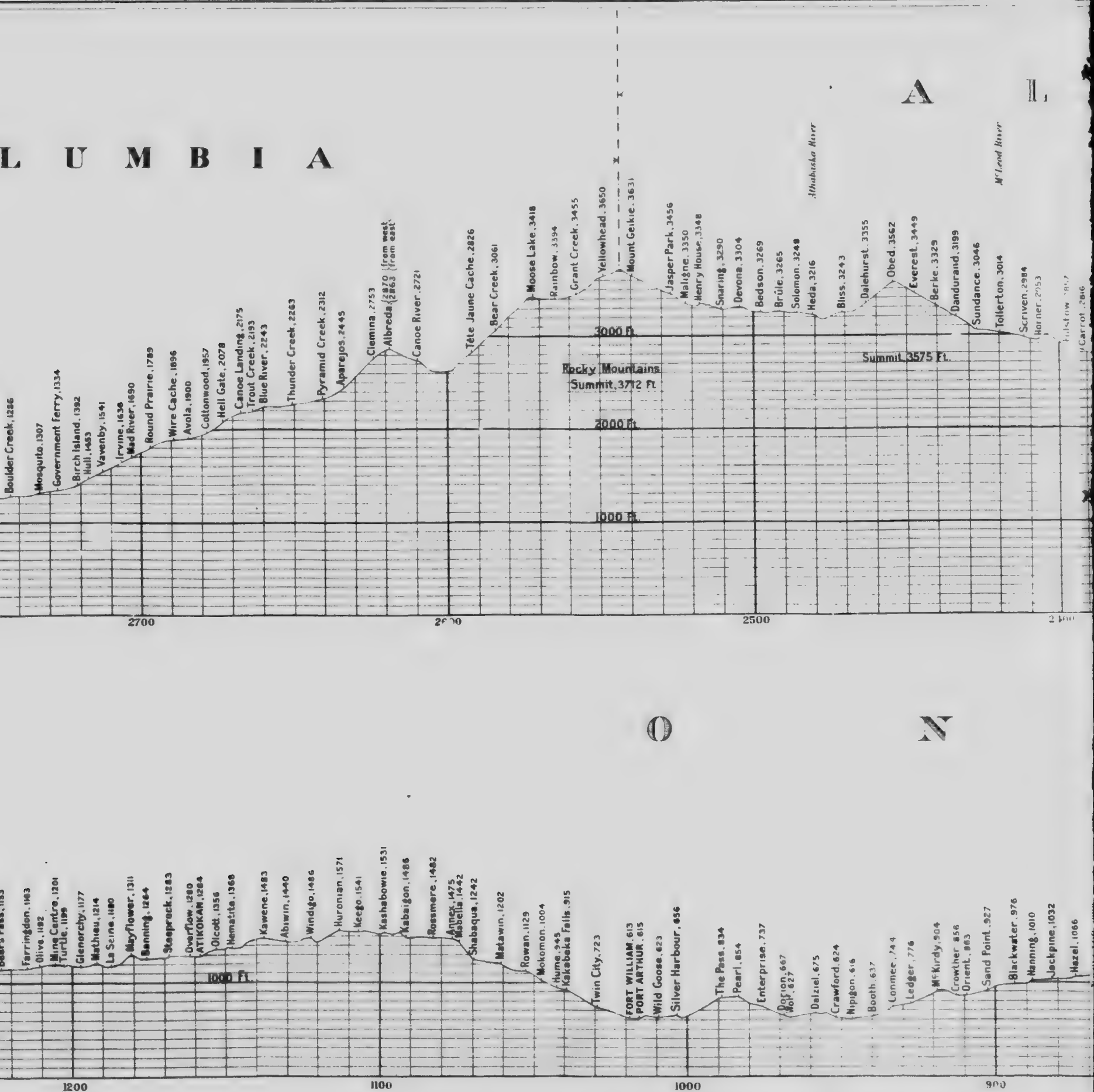


MANITOBA

MINN.



L U M B I A

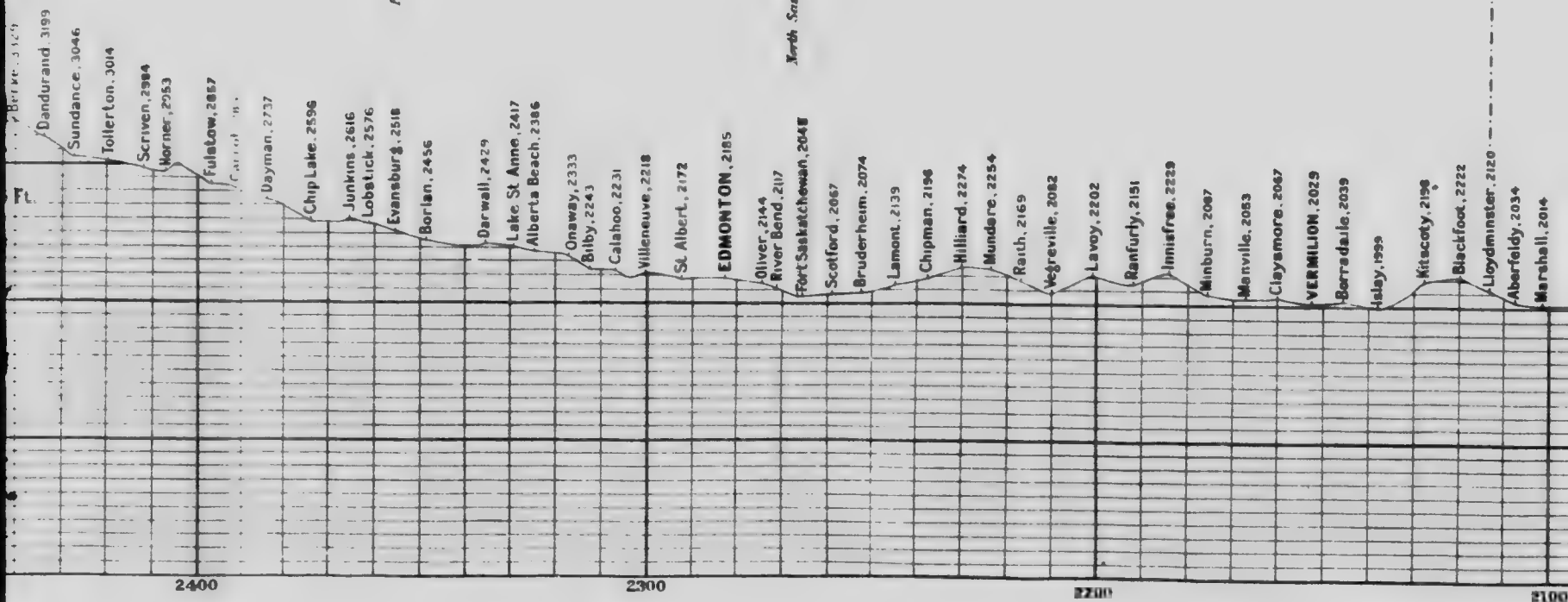


L B E R T A

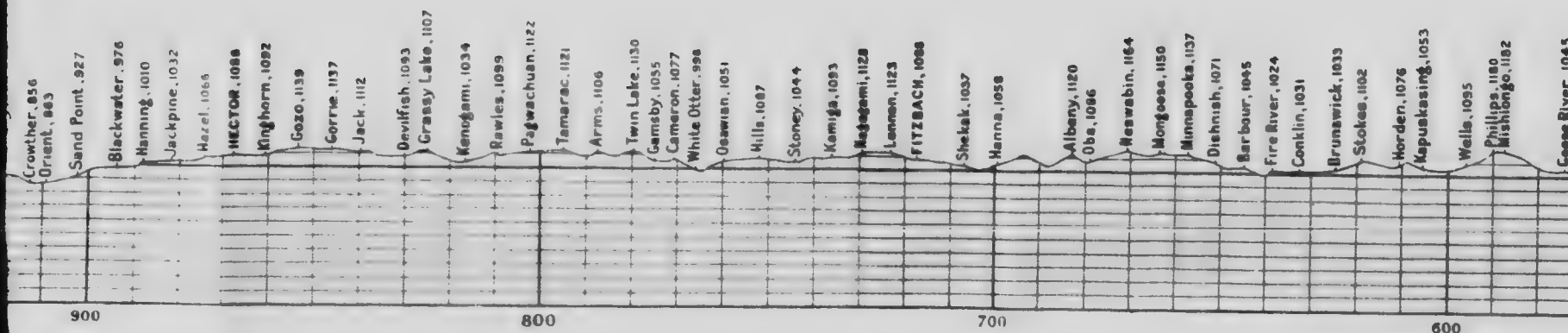
Mr. and Mrs.

Pembinaan Nisoi

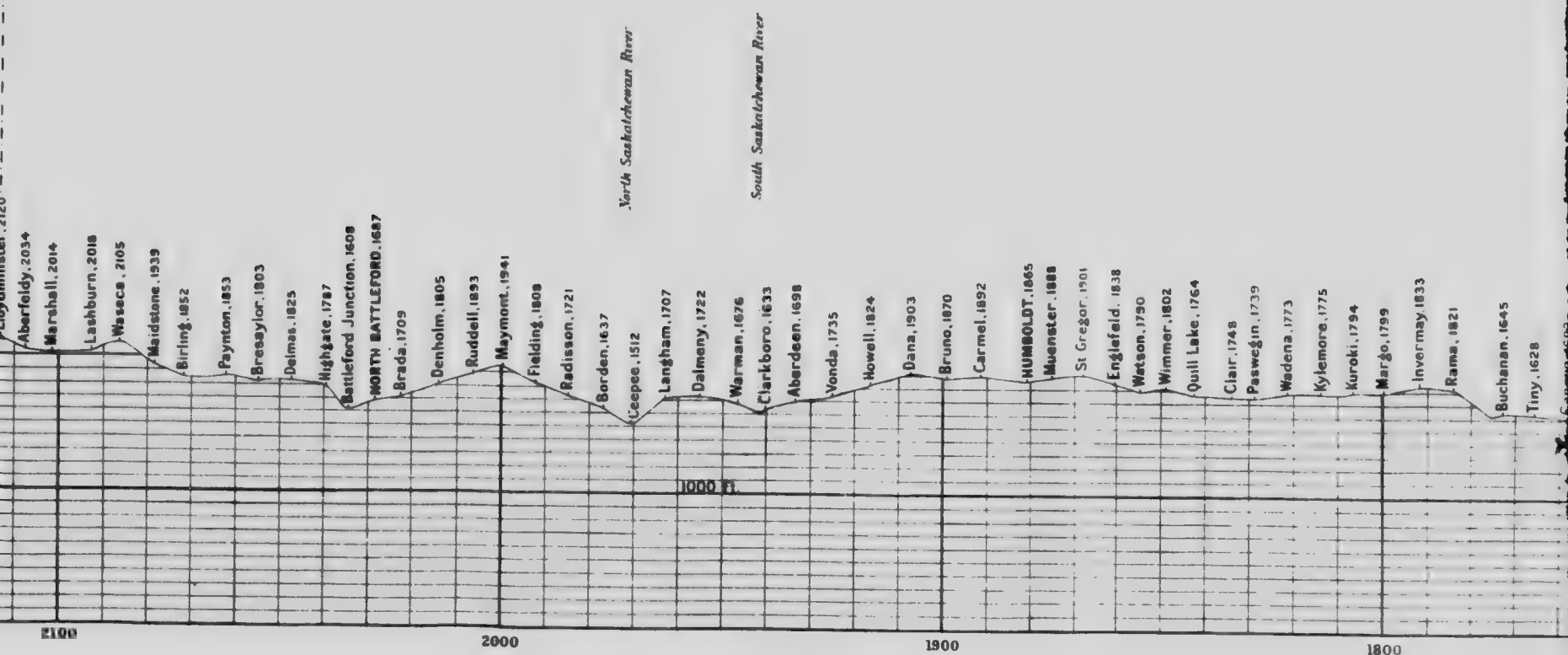
North Saskatchewan River



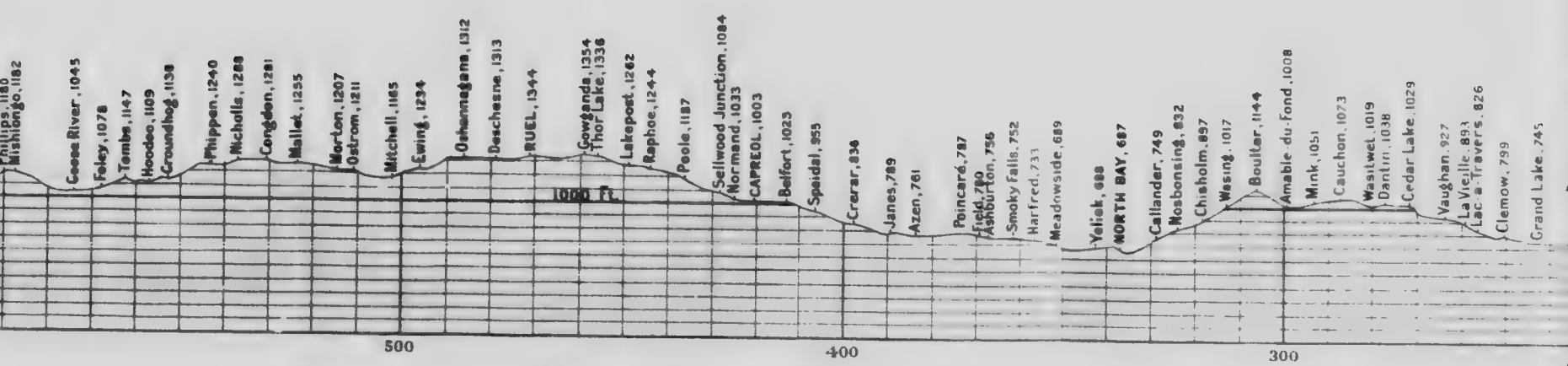
T A R



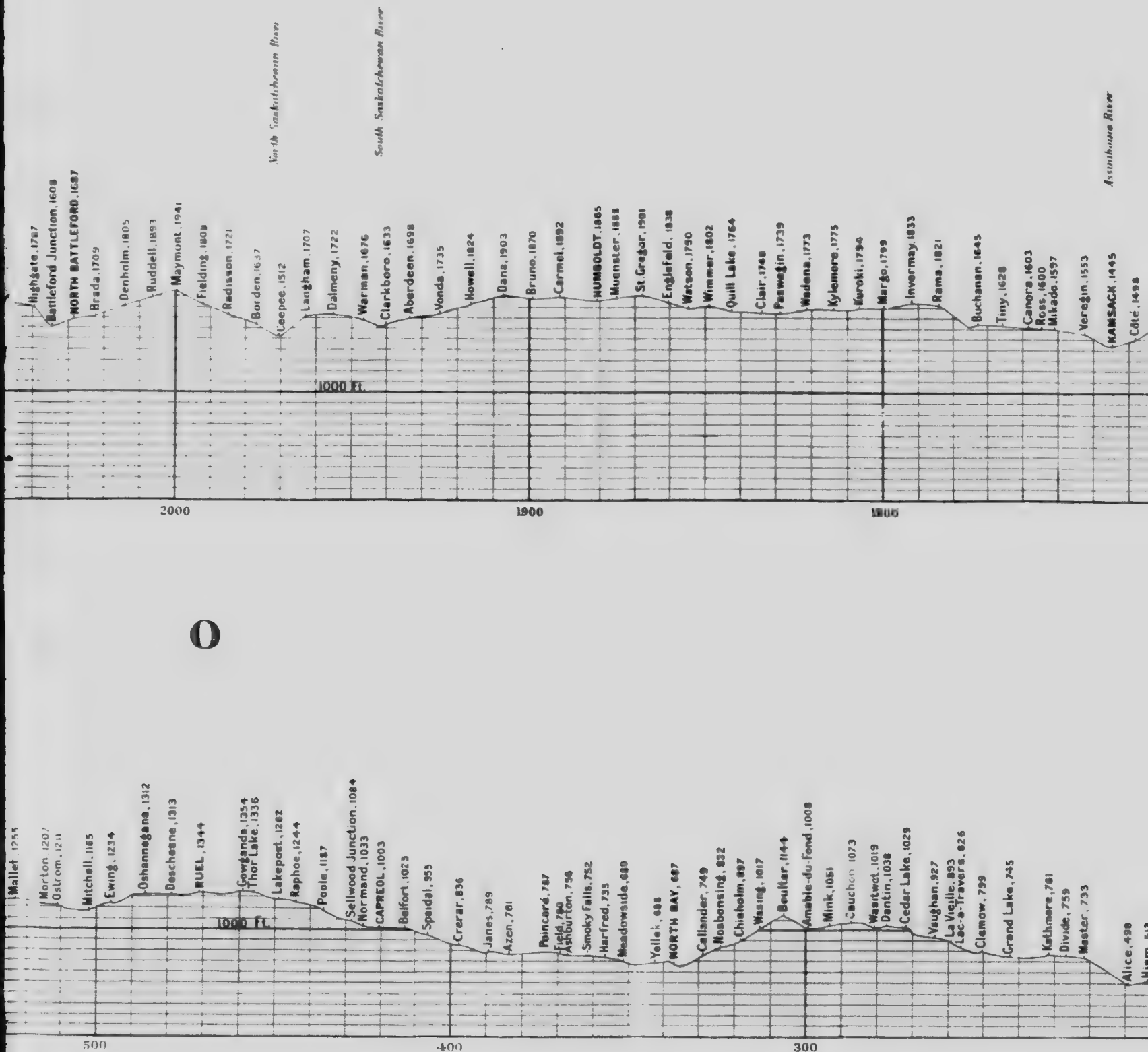
S A S K A T C H E W A N



I O



A S K A T C H E W A N

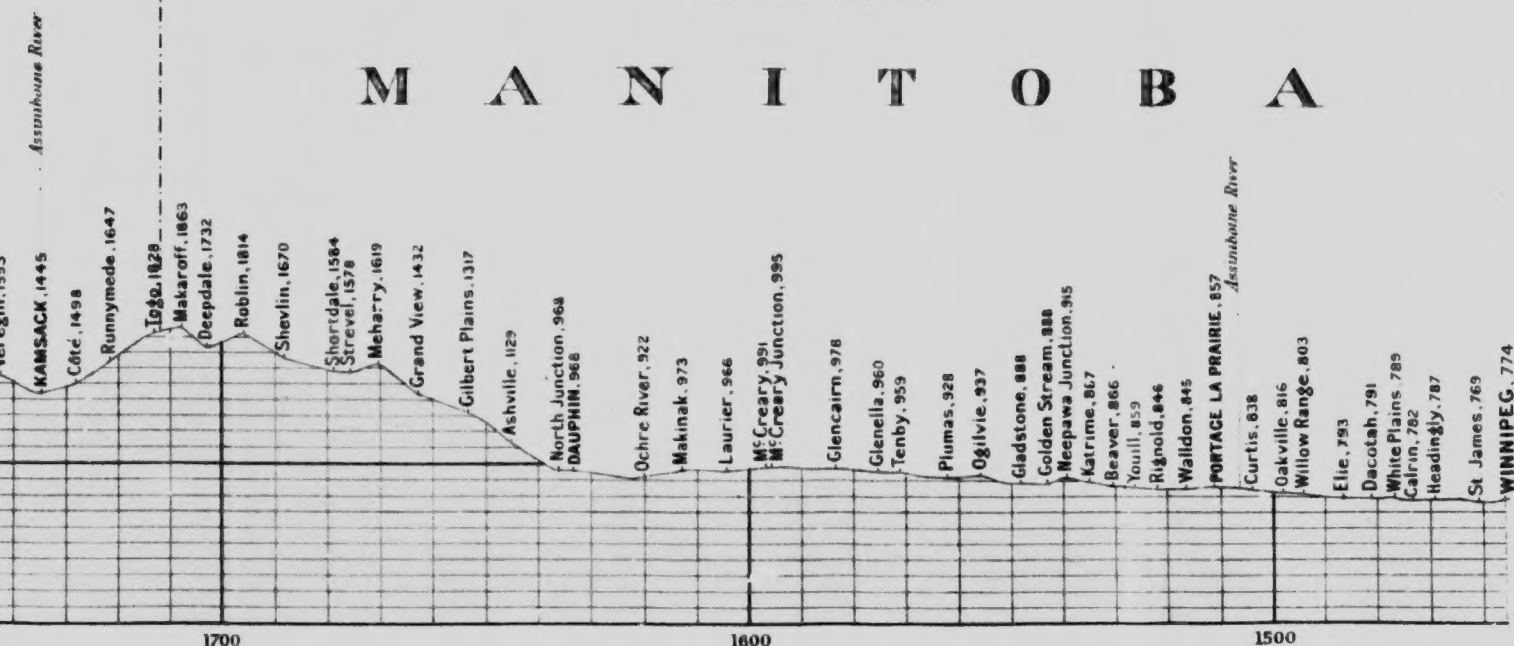


PROFILE OF CANADIAN NORTHERN RAILWAY MAIN LINE MONTREAL TO NEW WESTMINSTER

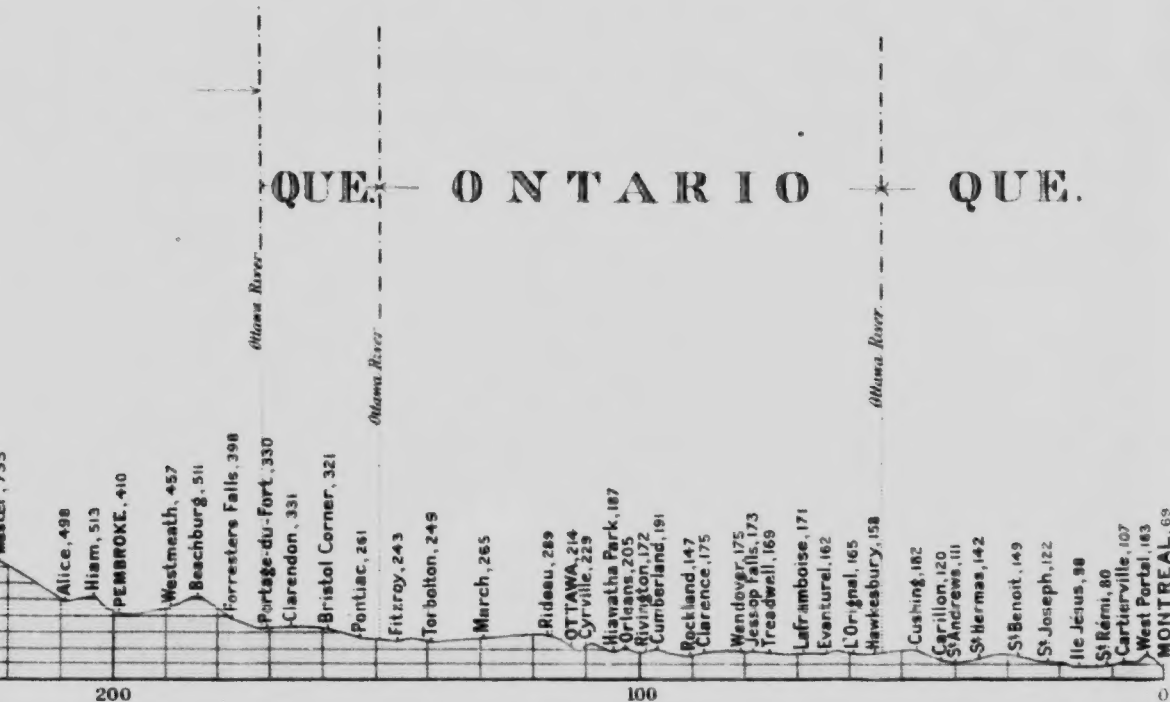
SCALES

Horizontal, 30 Miles = 1 Inch
Vertical, 1000 Feet = 1 Inch

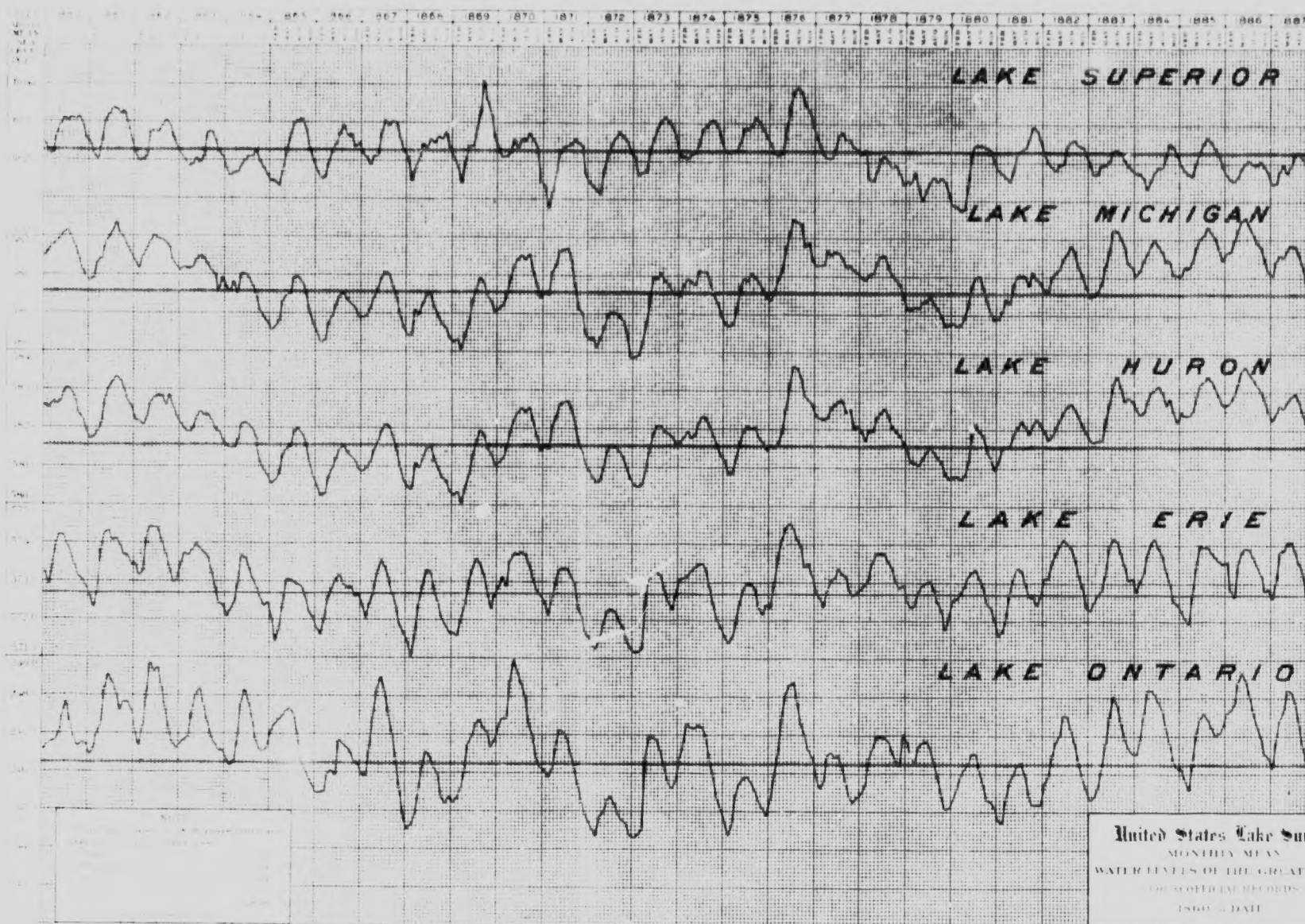
M A N I T O B A

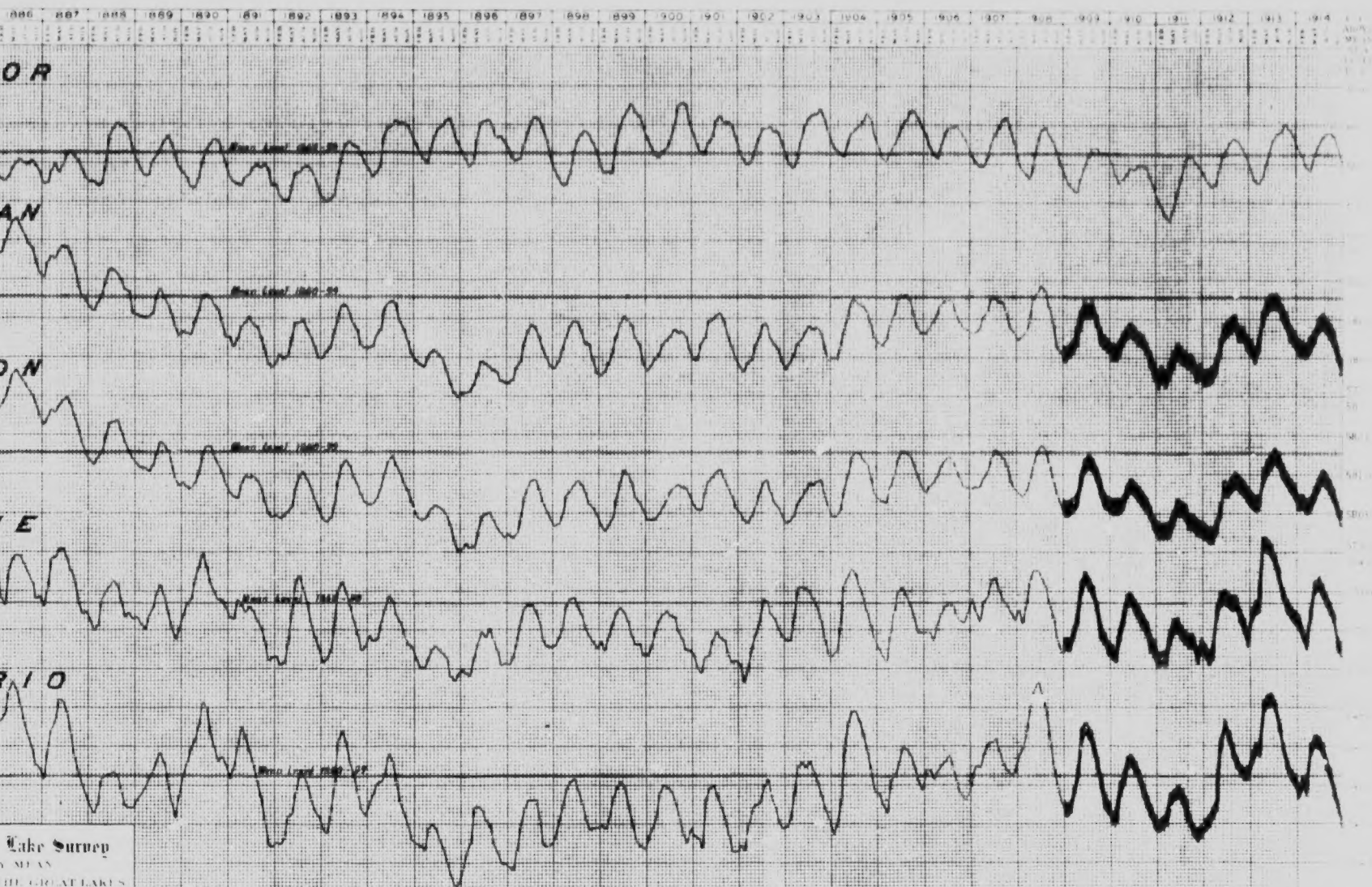


QUE. ONTARIO QUE.









Lake Survey
 MEAS
 OF THE GREAT LAKES
 RECORDS
 DATA

Scale 1/2 inch = 10 feet
 for the 1910-1914 period only